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ABSTRACT

The absorption by water vapor between 2800 and 4500 cm^{-1} nas been investigated. Spectra have been obtained for samples at pressures from 0.48 torr to 10 atm, and with absorber thicknesses varying from 8×10^{-4} to 0.7 gm cm^{-2}. Transmission spectra are shown along with extensive tables of transmittance, integrated absorptance, and the integrated absorption coefficient. Results are presented for samples chosen to provide information about the strengths, widths, and shapes of many of the absorption lines. The combined strength of the ν_1 and ν_3 bands has been found to be $28 \pm 1.5 \times 10^{4}$ cm^{-1} gm^{-1} cm^2; and the strength of the $2\nu_2$ band is $3.5 \pm 0.7 \times 10^{3}$ cm^{-1} gm^{-1} cm^2.

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SECTION 1

INTRODUCTION AND SUMMARY

Nearly all the absorption by water vapor in the 2800 - 4500 cm^{-1} region is due to the ν_3, ν_1, and $2\nu_2$ bands.[1] The origins of these bands for H_2O^{16}, the most common isotope, are at: ν_3, 3755.92 cm^{-1}; ν_1, 3657.08 cm^{-1}; and $2\nu_2$, 3151.60 cm^{-1}. Their relative intensities are approximately $\nu_3:\nu_1:2\nu_2$ = 120:12:1. Besides the H_2O^{16} lines, there are other isotopes whose normal abundances are: H_2O^{18}, 0.20%; H_2O^{17}, 0.037%; and HDO, 0.027%. Additional lines are also due to transitions in which the lower level is vibrationally excited; but at atmospheric temperatures, the only level of any significance is the lowest, ν_2. The abundance of molecules in this level is only about 0.04% as great as that in the ground state at room temperature; therefore, even its contribution is slight.

Several factors make it important to have a detailed understanding of the absorption in this region: The absorption bands are sufficiently strong that the H_2O content can be measured spectroscopically by various types of instruments such as high-altitude balloons or aircraft with the sun serving as a radiation source. Good detectors and sources exist and the background emission by the earth and the reflected solar radiation are relatively low. Thus, this region has several advantages for many types of communication systems.

Considerable work has been done previously on the absorption in this region by Howard, Burch and Williams[2] and by Burch, France and Williams.[3] From the results of these workers, it is possible to determine the average transmittance for a wide variety of samples over a spectral interval greater than approximately 10 cm^{-1} wide, provided the sample is near room temperature and the pressure is uniform. For many engineering purposes, this is

adequate; but, in order to account for variations in temperature, pressure and H_2O concentration over the path, it is necessary to know strengths and widths of the lines. Because of the relatively low spectral resolution used in the previous work, the results are not adequate for the determination of these basic line parameters.

Gates, et al[1] have calculated and tabulated strengths and widths of most of the lines in this region; but these calculations were necessarily based on limited data, some of which were not obtained for the purpose of providing this information. Furthermore, all the factors involved in calculating strengths and widths are not completely understood; therefore, the calculated values should be checked and possible corrections should be made.

The present investigation was undertaken for the purpose of supplying data from which the basic line parameters could be determined as well as to provide spectra to aid in interpreting atmospheric spectra. Information about the differences in the shapes and widths of self-broadened and N_2-broadened lines was also obtained; the results of this phase of the investigation appear in Section 3.

Spectra of more than 20 different samples in the 3847 - 3860 cm^{-1} and 3895 - 3932 cm^{-1} are shown in Section 4, along with tables of transmittance and integrated absorptance. These regions were chosen since they are particularly good for interpreting atmospheric spectra. They are relatively free of absorption lines of other atmospheric gases and the H_2O lines cover a wide range of strengths. The lower wavenumber region contains a few very strong lines, making it convenient for comparison with samples containing very little H_2O, such as the path between the sun and a very high balloon. The 3895 - 3932 cm^{-1} region contains several reasonably well isolated lines which are much weaker, making it useful for the comparison of larger samples, such as the path traversed by solar radiation to a balloon or aircraft at lower altitude. The higher wavenumber region also contains a relatively clear window about 8 cm^{-1} wide; careful investigation of this window could be useful in placing the zero absorptance curve on a solar spectrum.

Spectra of a few samples at 5 and 10 atm are shown in Section 5. Strengths of many of the lines can be obtained easily from these spectra, and the accompanying tables of $-\frac{1}{u}\int \ln T(\nu)d\nu$, where $T(\nu)$ is the transmittance and u is the absorber thickness in gm/cm^2.

Section 6 contains spectra of some large samples showing many very weak lines. Also included are spectra of some samples at low pressure which are useful for determining half-widths of many of the lines. Sections 4, 5 and 6 also contain tables of transmittance $T(\nu)$ versus ν and integrated absorptance $\int A(\nu)d\nu$ versus ν, where the values are calculated from the spectra shown.

SECTION 2

EXPERIMENTAL

2.1 GAS SAMPLING

Samples of H_2O and H_2O mixed with non-absorbing broadening gases were contained in two different absorption cells which have been described previously.[4] The longer cell has a base length of approximately 30 meters and was used at path lengths from 121 to 933 meters. It is approximately 0.9 meters in diameter and can be evacuated to less than 1 micron of Hg or pressurized to as much as 2.5 atm. The shorter cell has a base length of approximately 1 meter and was used for paths between 2.10 and 32.9 meters. It can be evacuated or pressurized to as much as 15 atm.

Sample pressures less than approximately 0.06 atm were measured with a U-tube oil manometer, and those in the range $0.06 < P < 2$ atm with a U-tube Hg manometer. All pressures > 2 atm were measured with a bourdon-type gauge.

Gases were handled by the use of a manifold system attached to the absorption cells. N_2 and other broadening gases were obtained from commercial cylinders. Liquid H_2O was put in a metal container and "pumped on" for a few minutes to reduce the amount of dissolved gases before it was allowed to "boil" into the previously evacuated absorption cell. The liquid was usually heated in order to reduce the filling time.

A few samples were studied with the absorption cell heated several degrees above ambient in order to increase the partial pressure of H_2O without condensation. When measuring pressures of the samples in which p was greater than the vapor pressure at room temperature, the sample gas was

confined to the absorption cell and a small part of the manifold system which could be heated. The heated part of the system included a small U-tube containing vacuum pump oil. One leg of the tube was connected to the sample gas and the other to the part of the system including the pressure gauges. The pressure in the latter part was adjusted until the heights of the oil in both legs of the U-tube were the same. The pressure indicated by the gauges was then the sample pressure.

The absorber thickness u of H_2O was calculated for each sample at room temperature from the following equation.

$$u(\mathrm{gm/cm^2}) = 9.75 \times 10^{-7}\ p(\mathrm{torr})\ L(\mathrm{cm}),\ \text{or} \qquad (2\text{-}1)$$

$$= 7.41 \times 10^{-4}\ p(\mathrm{atm})\ L(\mathrm{cm}); \qquad (\mathrm{gm/cm^2} = \text{precipitable cm})$$

L is the path length in cm and p is the partial pressure of H_2O. The coefficient can be calculated on the basis of the perfect gas law. The above equation is valid for room temperature, 296° K, but it must be multiplied by 296/θ°K for other temperatures.

Two factors make it more difficult to work with samples containing H_2O than most other gases which occur in the atmosphere. The first is the relatively low H_2O partial pressures to which the worker is limited because of the low vapor pressure near room temperature. The second difficulty arises from the adsorption of H_2O on the walls of any container, particularly the absorption cell. Adsorption makes sampling of H_2O vapor difficult since the amount may be great and is dependent upon the nature of the surface and the temperature. Furthermore, the adsorption or the desorption process may require several hours to come to equilibrium. This produces uncertainties in the determination of the amount of H_2O vapor in the optical path of an absorption cell since the amount may change considerably during the course of a set of measurements.

As a typical example, in working with our large absorption cell we might calculate the amount of liquid H_2O which would be required to produce a partial pressure of 15 torr if it all appeared as vapor. If this amount were then put into the absorption cell after it had been evacuated, the partial pressure in the cell would be approximately 11 torr instead of the calculated value of 15 torr. Thus, we conclude that more than 25% of the H_2O admitted to the cell adsorbed on the walls during the filling process which required approximately 20 minutes. If the sample were allowed to remain for an hour, the pressure would have dropped to approximately 10 torr; twenty-four hours later it might be as low as 9 torr. Thus, we see that a lot of adsorption takes place within a few minutes, but considerable time is required for the sample to come to equilibrium.

As another example, if the cell were allowed to remain with 10 torr H_2O in it for several hours, then pumped to a pressure of 5 torr and all the valves closed, the pressure would increase to as much as 6 torr within an hour. Several more hours would be required for the pressure to become stable.

We see that as much as 30 to 50% of a sample put in the large absorption cell may be adsorbed on the walls. Therefore, fluctuations in this amount might cause serious errors in the determination of u. The percentage of the sample adsorbed on the walls of the shorter absorption cell has not been measured. Its surface-to-volume ratio is considerably greater, but the walls were honed in order to reduce the effective surface, and thus the amount of adsorption.

The partial pressure p, and thus the absorber thickness u, can be determined accurately for pure H_2O samples since p can be measured directly. But because of the large fluctuation in p which may occur after a sample of $H_2O + N_2$ has been introduced to the cell, the determination of the absorber thickness of such a sample is much more difficult. It is not safe to assume that p remains constant after adding N_2; therefore, p was monitored by the use of a dew-point meter installed inside the absorption cell. The apparatus contained a Peltier cooler which cooled a flat, polished surface approximately 0.5 cm in diameter which was illuminated by a small bulb. Condensation of H_2O on the polished surface was detected by the use of a small photocell. When the polished surface was dry, very little light was reflected to the photocell; but as condensation started, the thin film of H_2O scattered light to it. The temperature at which condensation started was measured by a small thermocouple fastened to the surface on which the condensation occurred. After a sample had remained in the absorption cell sufficiently long for it to reach equilibrium, repeated measurements of the dew point were consistent to less than $\pm$ 0.1°C.

In order to make a mixture of $H_2O + N_2$, the absorption cell was first evacuated and pure H_2O was added. N_2 was not added until the H_2O partial pressure was essentially in equilibrium. The amount of time required to approach equilibrium could be greatly reduced by first introducing more H_2O than would be required. This was allowed to remain in the cell for several minutes, then part of it was pumped out to give the desired pressure. After gaining some experience, we were able to obtain H_2O partial pressures to within two or three percent of their equilibrium value within a period of one or two hours.

Immediately before the N_2 was added, the pressure was measured and a dew point reading was made. N_2 was then slowly added to the absorption cell with the sample being mixed constantly by a small fan mounted inside the cell. While scanning the spectra, dew-point readings were periodically taken to monitor p. The dew-point reading of the pure H_2O sample whose pressure could be measured accurately served as a calibration for the dew

point apparatus. Thus, it was not necessary to rely upon the temperature calibration of the thermocouple or upon published values of vapor pressure at different temperatures. However, our dew-point readings for pure samples were always within a few tenths of a degree of the accepted values. Since p was allowed to approach equilibrium before the N_2 was added, the dew-point readings after the addition of N_2 were very nearly the same as those before. Thus, the dew-point apparatus served only as a monitor, and we were not dependent upon its absolute accuracy.

We investigated the possibility of the dew-point apparatus giving a different reading for the same p at different values of total pressure P. It was apparent that more heat was absorbed by the cooler at higher pressures since more current was required to cool it to a given temperature. If the heat flow caused a temperature gradient between the point at which the condensation occurred and the point at which the temperature was being measured, we would expect the temperature gradient to increase with increasing pressure. If this were true, one would then expect that the dew-point reading for a given p would depend upon P. In order to minimize this effect, we adjusted the apparatus so that the spot at which condensation was being observed was within two or three millimeters of the thermocouple used to measure the temperature. The surface joining these two points was made of a copper alloy with good heat conductivity so that the temperature gradient should be minimized. The leads to the thermocouple were made of fine wire to reduce the heat flow through them.

In order to check the possibility of such a systematic error, we introduced a sample of H_2O into the cell and waited until we were sure it had reached its equilibrium pressure. High-purity N_2 was then added very slowly to the cell with the gases being mixed constantly. The dew-point was measured at various pressures up to 10 atm. We repeated this procedure two or three times and did not detect any difference in the dew-point reading as the pressure was increased. Thus it seems safe to assume that our dew-point readings were not dependent on P.

In a previous model of our dew-point apparatus, there was a thin disk of germanium between the thermocouple and the surface on which the condensation occurred. With this unit there was apparently sufficient heat flow through the germanium with the cell at high pressures that the dew-point reading changed with increasing pressure. For this reason, this first model was modified. The germanium disk was originally tried because it could be polished to provide a very smooth surface which scattered very little light onto the photocell unless a film of H_2O was present. Germanium was used instead of glass or some other substance which could be highly polished because of its high conductivity. The copper alloy surface scatters more light but the contrast in light between dry and wet is still good.

When possible, p was maintained between approximately 4 and 12 torr when operating near room temperature. The lower limit was determined by the smallest value at which dew-point readings could give accurate measurements of p. Values of p greater than about 12 or 15 torr were avoided in order to eliminate the possibility of condensation if some of the H_2O were crowded to one portion of the absorption cell as the N_2 was being added. If this occurred and the vapor pressure of H_2O were exceeded, part of the H_2O might condense on the walls of the cell, and considerable time would be required before it evaporated and equilibrium was obtained. The absorber thickness was varied by changing the number of passes of the light through the cell.

Values of u are probably accurate to better than $\pm$ 4 or 5% for most of the samples included in this investigation. In general, the greater the value of p the better the accuracy.

2.2 TEST FOR EFFECT OF H_2O ADSORBED ON SURFACES OF MIRRORS

From the above discussion, we can calculate that the amount of H_2O adsorbed on the walls of the large absorption cell corresponds to a thickness of approximately 1 micron of liquid when the cell contains 10 torr of H_2O vapor. Since this much is adsorbed on the walls, we might expect some to be adsorbed on the surface of the mirrors in the multiple-pass optics. The objective of the experiment summarized here was to determine if any systematic errors in the absorption measurements might arise from absorption by H_2O adsorbed on the mirrors.

Since the mirror surfaces are much smoother than the walls of the cell, we would expect the surface density of H_2O to be considerably less on the mirrors, but even very small amounts might cause considerable error in some spectral regions, depending upon the absorption characteristics of the film of adsorbed H_2O. For example, if the film absorbed radiation as if it were liquid water, a layer 1 micron thick would reduce the intensity at 3 microns by about one-half.[5] If the film behaved as a gas, its effect would be much less obvious since the absorption coefficient of vapor is less.

We assembled an optical system inside of a tank which could be evacuated and filled with H_2O or air to any desired pressure as long as the vapor pressure of H_2O was not exceeded. Light from a Nernst glower was directed through one of two optical paths within the absorption cell, out through a window and was focused on the entrance slit of a small grating spectrometer mounted in a vacuum tank. In one of the alternate paths, which we will call path A, the radiation traversed the cell with a path length of approximately 2-1/2 meters through the sample. Path A contained four reflecting surfaces from front surface aluminized mirrors. Path B had exactly the same path length through the vapor; but there were

40 mirror reflections in this path. It was possible to change from one light path to the other in a few seconds by rotating one of the mirrors with a screw assembly which was turned from outside the tank by a rotating seal.

Since the distance traversed through the vapor was exactly the same for both paths, any difference in the spectra would be due to the effect of the 36 extra reflections in path B compared to that in path A. Background curves were obtained through both paths with the cell evacuated so we could account for the reflection characteristics of "dry" mirrors.

Spectra of several different samples were obtained through the region from about 3100 cm^{-1} to 4000 cm^{-1}. The spectra were examined carefully in the region near 3850 cm^{-1} where there are very strong H_2O lines and near 3300 cm^{-1} where there is a maximum in the absorption coefficient of liquid H_2O.

After accounting for the difference in the backgrounds of paths A and B, we were not able to see any significant difference between two spectra obtained through the two different paths for the same gas sample. Therefore, any possible absorption by 36 films of H_2O on the mirror surfaces is much smaller than that by 2-1/2 meters of vapor. Thus, it seems safe to conclude that any possible absorption due to H_2O adsorbed on the surfaces of the mirrors of a multiple-pass cell is negligible if the distance the radiation travels through the gas is as great as 6 or 7 cm per reflection from each mirror surface. It is quite possible that the minimum distance per reflection is considerably less. Of course, it should be recalled that these measurements were obtained at room temperature; and it is possible that there is a significant effect at lower temperatures since adsorption is known to increase with decreasing temperature.

Of course, this result has application in other optical systems besides multiple-pass absorption cells. It applies to any optical system in which mirror surfaces are exposed to air.

2.3 RECORDING AND CALIBRATION OF SPECTRA

The spectra were obtained with an Ebert-type spectrometer whose main mirror has a 75 cm focal length. It utilized a small grating having a ruled area 64 x 64 mm with 300 lines/mm and blazed at 3.2 microns. The grating was used in the first order and a Ge filter eliminated overlapping orders of wavelengths less than 1.8 μ. Thus, this system was limited to $\lambda < 3.6\ \mu$ ($\nu > 2800\ cm^{-1}$), since second order radiation of $\lambda > 1.8\ \mu$ would be present when operating at longer wavelengths. A Nernst glower was used as a radiation source, and a PbS cell cooled with liquid nitrogen served as the detector.

The spectrometer is "home made" and was contained in a tank which could be evacuated to essentially eliminate absorption due to atmospheric gases outside the absorption cell. The spectrometer tank, as well as another vacuum tank containing the radiation source and chopper, were connected to the absorption cell by means of flexible bellows.

Approximately the same resolution schedule was used in recording all the spectra: the approximate spectral slitwidths at five different wavenumbers are given in Table 2-1.

TABLE 2-1

SPECTRAL SLITWIDTHS

Wavenumber (cm^{-1})	Spectral Slitwidth (cm^{-1})
2800	0.40
3200	0.46
3600	0.56
4000	0.67
4400	0.80

Background curves were obtained with the absorption cell evacuated for each number of passes for which sample spectra were scanned. The background curves were different for different numbers of passes since the reflectivity of the mirrors in the multiple-pass optics varies with wavenumber. The appropriate background curve, which represents 100 percent transmittance, was then fitted to each spectrum and traced on it. The transmittance was determined from the ratio of the deflection of the sample spectrum to that of the background curve at the same wavenumber.

Each spectrum was examined and compared with others for consistency. Small changes were occasionally made to account for "drift" or spurious deflections which were not reproducible. A few of the spectra on which there was considerable noise were scanned two or three times and a smoothed "average" spectrum was used.

The spectra of samples contained in the shorter absorption cell ($L \leq 32.9$ meters) were digitized while they were being scanned. Pairs of values, one related to transmittance and the other to wavenumber, were punched on IBM cards which served as input for a computer program used to calculate transmittance, integrated absorptance, and integrated absorption coefficient as a function of

wavenumber. Copies of portions of the program output are included in Sections 4, 5 and 6. Spectra of samples contained in the longer absorption cell (L $\geq$ 121 meters) were scanned before the digitizing apparatus was obtained. They were replotted and digitized by use of the apparatus described in Appendix C of Reference 4.

The positions of most of the absorption lines observed in the present investigation have been measured or calculated previously[1,6,7]. More than 200 of them were used for wavenumber calibration of the spectra; those used are listed in Table 2-2. The calibrated points are sufficiently close that the spectra are linear in wavenumber between them.

TABLE 2-2

CALIBRATION TABLE

Line No.	ν cm^{-1}	Line No.	ν cm^{-1}	Line No.	ν cm^{-1}	Line No.	ν cm^{-1}
380	2801.51D	413	3004.65	446	3169.58	479	3322.99
381	2809.34D	414	3010.23	447	3178.13	480	3329.66
382	2814.99D	415	3012.52	448	3185.21	481	3334.64
383	2819.48H	416	3015.56	449	3196.10	482	3336.71
384	2821.85D	417	3022.35	450	3199.73	483	3340.22
385	2830.02H	418	3025.78	451	3209.75	484	3345.96
386	2835.03D	419	3030.72	452	3214.14	485	3351.24
387	2841.54D	420	3031.74	453	3219.39	486	3357.00
388	2845.24D	421	3035.79	454	3222.02	487	3361.68
389	2850.92D	422	3048.95	455	3227.47	488	3364.31
390	2858.87D	423	3056.38	456	3229.91	489	3367.62
391	2871.46H	424	3059.93	457	3233.00	490	3370.98
392	2879.82H	425	3064.40	458	3236.67	491	3374.69
393	2890.15H	426	3067.01	459	3240.09	492	3380.41
394	2893.82H	427	3077.93	460	3244.96	493	3383.07
395	2901.82H	428	3079.69	461	3254.15	494	3385.69
396	2906.72H	429	3082.60	462	3257.23	495	3392.90
397	2912.13H	430	3087.18	463	3260.44	496	3397.21
398	2930.10H	431	3093.69	464	3265.09	497	3403.49
399	2935.23	432	3096.90	465	3270.48	498	3408.83
400	2954.17	433	3101.16	466	3273.60	499	3413.09
401	2955.61	434	3103.02	467	3276.40	500	3420.49
402	2961.53	435	3107.32	468	3280.06	501	3423.24
403	2966.00	436	3109.74	469	3282.94	502	3427.93
404	2973.25	437	3114.47	470	3288.47	503	3431.06
405	2975.10	438	3115.87	471	3291.35	504	3442.52
406	2977.96	439	3118.12	472	3294.18	505	3447.25
407	2980.35	440	3121.66	473	3297.49	506	3455.79
408	2984.20	441	3126.80	474	3303.25	507	3458.70
409	2987.49	442	3133.05	475	3308.80	508	3462.70
410	2991.93	443	3142.79	476	3310.50	509	3466.87
411	2993.68	444	3151.34	477	3313.27	510	3475.01
412	2995.38	445	3167.92	478	3317.26	511	3480.71

D, H The lines marked with D and H are HDO and H_2O, respectively, taken from Migeotte et al[6]. The remainder were obtained from Gates et al[1].

TABLE 2-2

CALIBRATION TABLE (Cont.)

Line No.	ν cm^{-1}	Line No.	ν cm^{-1}	Line No.	ν cm^{-1}	Line No.	ν cm^{-1}
512	3482.24	545	3607.03	578	3779.50	611	3975.00
513	3488.20	546	3612.55	579	3784.56	612	3982.18
514	3491.13	547	3519.64	580	3789.33	613	3995.03
515	3495.16	548	3626.24	581	3796.43	614	4008.59
516	3496.63	549	3630.71	582	3801.43	615	4019.99
517	3501.54	550	3633.86	583	3806.91	616	4025.39
518	3503.28	551	3638.09	584	3816.07	617	4044.92
519	3504.74	552	3642.57	585	3821.79	618	4060.40
520	3509.57	553	3649.27	586	3826.74	619	4073.87
521	3511.59	554	3652.93	587	3831.67	620	4079.42
522	3517.40	555	3656.35	588	3835.02	621	4088.16
523	3518.99	556	3659.94	589	3837.85	622	4106.04
524	3522.73	557	3668.79	590	3843.78	623	4133.70
525	3525.60	558	3674.97	591	3852.07	624	4138.79
526	3527.05	559	3679.44	592	3857.28	625	4149.49
527	3529.07	560	3684.55	593	3861.80	626	4159.25
528	3530.75	561	3688.45	594	3865.12	627	4172.36
529	3536.24	562	3696.34	595	3870.12	628	4181.44
530	3542.90	563	3701.75	596	3874.42	629	4191.32
531	3543.63	564	3709.42	597	3880.20	630	4204.77
532	3545.21	565	3712.20	598	3885.68	631	4216.44
533	3548.34	566	3718.97	599	3891.32	632	4230.15
534	3552.21	567	3722.19	600	3901.91	633	4239.95
535	3557.14	568	3726.62	601	3906.05	634	4250.91
536	3560.14	569	3732.13	602	3917.23	635	4264.36
537	3563.61	570	3736.69	603	3920.06	636	4275.56
538	3570.50	571	3741.06	604	3925.26	637	4294.58
539	3574.47	572	3747.41	605	3930.60	638	4306.69
540	3579.33	573	3752.21	606	3934.09	639	4329.75
541	3583.60	574	3756.61	607	3942.70	640	4356.13
542	3588.75	575	3759.79	608	3950.00	641	4407.50
543	3595.35	576	3765.79	609	3956.85	642	4493.93
544	3600.98	577	3769.80	610	3969.14	643	4512.54

SECTION 3

SHAPES OF SELF-BROADENED AND N_2-BROADENED ABSORPTION LINES

The absorption coefficient $k(\nu)$ of a single absorption line is given by

$$k(\nu) = S\, f(\nu), \tag{3-1}$$

where S is the strength of the line and is constant at a given temperature. The shape function $f(\nu)$ is normalized so that

$$\int_0^\infty f(\nu)d\nu = 1. \tag{3-2}$$

For a Lorentz line,

$$f_L(\nu) = \frac{1}{\pi}\,\frac{\alpha}{(\nu - \nu_o)^2 + \alpha^2}, \text{ or}$$

$$k_L(\nu) = \frac{S}{\pi}\,\frac{\alpha}{(\nu - \nu_o)^2 + \alpha^2}. \tag{3-3}$$

α is the half-width and ν_o is the line center.

At temperatures and pressures usually encountered in studies of atmospheric transmission, the shapes of absorption lines are determined by collision broadening, or pressure broadening, whichever term is preferred. Only at pressures less than a few hundredths of an atm, or at elevated temperatures, is Doppler broadening important. A wide variety of absorption data obtained under quite different conditions and at different wavenumbers indicate that the shape of collision-broadened lines is given approximately, but not exactly, by the Lorentz equation for $\nu - \nu_o$ less than a few cm^{-1}.

It is not possible to determine directly the true shape of infrared absorption lines because of the finite slitwidth of spectrometers used in making the measurements. The half-width of an absorption line at STP is of the order of 0.1 cm^{-1}, which is approximately the same as the best resolution obtainable. The modification of a spectrum due to the spectral slitwidth is greatest near the line center where $k(\nu)$ changes fastest, and the information obtainable from measurements farther from the line centers is limited by overlapping of adjacent lines. For a very good discussion of line shape measurement and the method for accounting for spectrometer slitwidth, the reader is referred to an article by Benedict, Herman, Moore and Silverman.[8]

In the microwave region, very good resolution is possible and direct measurements of line shape can be made. However, there are only limited data available and their applicability to the infrared is doubtful. Microwave studies have shown that line width is proportional to the pressure of a gas of constant composition and that $k(\nu_o)$, the absorption coefficient at the line center, is inversely proportional to pressure as predicted by the Lorentz equation.

The curve of growth of a single infrared absorption line is usually a function of the shape within 1 or 2 cm^{-1} of the center. Such curves show a dependence on pressure and absorber thickness which is similar to that expected for the Lorentz shape; but they, of course, do not prove that the lines are exactly Lorentzian. Measurements a few cm^{-1} from the line centers of various gases indicate deviations from this shape; some are stronger (super-Lorentzian) and some weaker (sub-Lorentzian). Results of two investigations, one by Winters, Silverman and Benedict[9] and one by us,[10] indicate that the extreme wings of CO_2 lines, 10-200 cm^{-1} from the centers, may be sub-Lorentzian by as much as a factor of 10 to 1000.

On the basis of the information on line shapes summarized above, it seems logical to express the shape by the Lorentz equation times a correction function F, as follows:

$$f(\nu) = f_L(\nu)\, F = \frac{1}{\pi} \, \frac{\alpha \, F}{(\nu - \nu_o)^2 + \alpha^2} . \tag{3-4}$$

Certain characteristics of F might be expected for H_2O lines since they occur for other gases. From curve of growth data, we expect that $F \cong 1$ for $\nu - \nu_o$ less than 1 or 2 cm^{-1}; but the measurements in the extreme wings indicate that $F \ll 1$ for very large $\nu - \nu_o$, at least for CO_2. The CO_2 absorption coefficient was found[9,10] to be proportional to pressure in the extreme wings; thus, if we assume α is proportional to pressure, F must be independent of α for $\nu - \nu_o \gg \alpha$. However, our results[10] tend to show that F is a function of α as well as $\nu - \nu_o$ when $\nu - \nu_o$ is the same order of magnitude as α.

The expression for the half-width of a collision-broadened line as given by kinetic theory is

$$\alpha = \frac{1}{4\pi} \sum_{i} N_i (D_{ai})^2 \left[2\pi k\theta \left(\frac{1}{m_a} + \frac{1}{m_i}\right)\right]^{1/2}, \tag{3-5}$$

where N_i is the number of molecules of the ith type per unit volume, D_{ai} is the sum of the optical collision diameters of the absorbing molecule and a molecule of the ith type, m_a is the mass of the absorbing molecule and m_i is the mass of the molecule of the ith type. θ is the temperature and k is Boltzmann's constant.

For a sample of $H_2O + N_2$ at constant temperature, α can be expressed by an equation of the following form,

$$\alpha = C_a p + C_{N_2} p_{N_2}. \tag{3-6}$$

Pressures of H_2O and N_2 are denoted by p and p_{N_2}, respectively; C_a and C_{N_2} are constants.

In the earth's atmosphere, most of the broadening of H_2O lines arises from collisions with N_2 which constitutes approximately 80% of the air. It is, therefore, desirable to relate α of a mixture to an equivalent pressure P_e defined so that $P_e \rightarrow p_{N_2}$ for a very dilute mixture ($p \ll p_{N_2}$). Thus

$$\alpha = C_{N_2} P_e. \tag{3-7}$$

P_e for an $H_2O + N_2$ mixture is then given by

$$P_e = Bp + p_{N_2} = P + (B-1)\, p, \tag{3-8}$$

where P is the total pressure and the self-broadening coefficient $B = C_a/C_{N_2}$, the ratio of the self-broadening ability to the N_2 broadening ability.

The purpose of the investigation described in this section was to determine a reliable value of B, or a function relating B to other experimental parameters, and to see if the correction function F for self-broadened lines is significantly different from that for N_2-broadened lines.

A typical set of measurements were carried out as follows:

> A spectrum was scanned through the region from approximately 3842-3860 cm^{-1} for a sample of pure H_2O at a pressure of 15.4 torr and a path length of 416 cm. A tracing of this spectrum

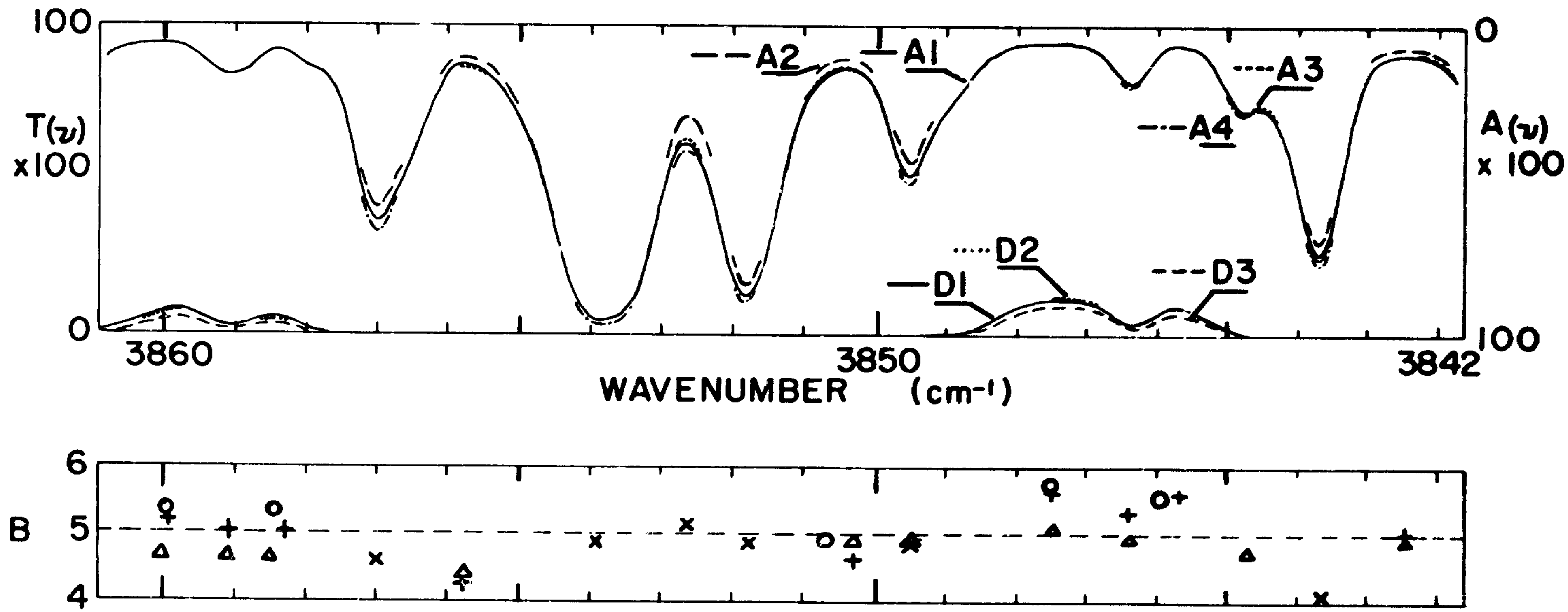
is shown as Curve A1 in Figure 3-1. The multiple-pass cell was then evacuated and adjusted for a path length of 1648 cm; H_2O vapor was then added to a partial pressure of 3.9 torr, giving the same value of u as in the Sample A1. A spectrum of the pure H_2O at a pressure of 3.9 torr would, of course, show considerably less absorption than that of Sample A1 because of the lower pressure. N_2 was added to the sample and spectra were scanned at total pressures of 40, 60 and 71 torr. Only the portions of these spectra near the maxima and minima of absorptance are shown since the small separation between them and A1 is difficult to illustrate in the other regions. The increase in absorptance with increasing pressure is noted. Although neither A2, A3 or A4 is exactly coincident with A1, they are sufficiently close that we can interpolate or extrapolate to determine the total pressure which would be required of the $H_2O + N_2$ mixture to match spectrum A1 at any given wavenumber. We define this to be the matching pressure.

We see from A2, A3 and A4 that the absorptance increases with increasing pressure at the line centers near 3844, 3850, 3852 and 3857 cm^{-1}. At first, this may seem to be opposite of what we would expect on the basis of Equation(3-3)where f_L decreases with increasing α at $\nu = \nu_o$. The increase in $A(\nu)$ which we observe is a result of the finite slitwidth of the spectrometer which averages over a small interval. Although $k(\nu)$ decreases with increasing α for $\nu - \nu_o < \alpha$, it increases for $\nu - \nu_o > \alpha$. When the slitwidth of the spectrometer is a few times greater than α, the increase in $k(\nu)$ for $\nu - \nu_o > \alpha$ causes $A(\nu)$ to increase more than the decrease in $k(\nu)$ for smaller $\nu - \nu_o$ causes it to decrease. The net result is that $A(\nu)$ increases with increasing α. When the spectral slitwidth is less than α, or when $A(\nu)$ is small, the expected decrease in $A(\nu)$ with increasing pressure can be observed.

The absorptance observed with a spectrometer having slit function $\mathscr{S}$ is a function of $\mathscr{S}$, u and $f(\nu)$. $\mathscr{S}$ and u are the same for A1 to A4; therefore, any difference in the spectra is due to a difference in $f(\nu)$. At the absorptance maximum near 3857 cm^{-1}, A3 is essentially coincident with A1; thus, we conclude that $f(\nu)$, or at least its average over the narrow region of coincidence, is the same for the corresponding samples. Now, if we assume that the central portion of this line has the Lorentz shape (F = 1), we conclude that the half-width of this line, and thus P_e, is the same for A1 as for A3. By substituting the pressures in the two samples in Equation(3-8) we arrive at

$$B\ 15.4 = B\ 3.9 + (60 - 3.9),$$

$$\text{or } B = 4.9. \qquad (3\text{-}8a)$$



Sample	u gm/cm²	p (Torr)	P (Torr)	Temp. °K	Symbol
A1	6.27×10^{-3}	15.4	15.4	296	X
A2	"	3.9	40	"	X
A3	"	3.9	60	"	X
A4	"	3.9	71	"	X
D1	7.25×10^{-2}	102	102	337	O
D2	"	25.8	450	"	O
D3	"	25.8	550	"	O

FIG. 3-1 SPECTRA SHOWING COMPARISON OF SELF-BROADENED AND N_2-BROADENED H_2O LINES.
The lower portion shows calculated values of the self-broadening coefficient B.

It is apparent from the spectra that the matching pressure varies from one wavenumber to another; thus a matching of $f(\nu)$ at one wavenumber does not correspond to matching at another. Since we do not know values of α, we cannot determine if the failure to match at the same pressures is a result of different α's or different F's, or both. At any wavenumber, we can find a matching pressure, which means that P_e is the same for both samples at that wavenumber. We can then find a value of B by substituting the pressures in Equation (3-8).This value of B is not simply a ratio of half-widths as given in the simplified derivation of Equation (3-8), but it may also include differences in the correction function F.

B was calculated at several different wavenumbers from spectra A1 to A4; the calculated values are represented in the lower portion of the figure by the x's. Most of the absorption in the regions of minimum absorptance is due to the wings of the neighboring lines and is so small for the Samples A1 to A4 that reliable values of B could not be determined. Therefore, spectra D1, D2 and D3 were obtained for samples having considerably larger p and u. The temperature was increased to permit the usage of larger p without condensation. The values of B calculated from these spectra are indicated by o's at four different wavenumbers in the lower portion of the figure. The other symbols represent two other sets of samples of intermediate u and p. We see that all of the calculated values of B occur between 4 and 6, with most of them between 4.5 and 5.5 At any given wavenumber, there is less than $\pm$ 10% difference in the values; this much could be attributed to experimental error.

If, as an example, F were the same near the line centers for self-broadened lines as for N_2-broadened lines but was greater in the wings of self-broadened lines, B would be greater in the regions between lines than near the centers. No correlation is apparent between the values of B and locations of the points relative to line centers, indicating that there is certainly not a great difference between a self-broadened line and an N_2-broadened line between about 0.2 and 2 cm^{-1} from the centers. We will see below that this is not the case for CO_2 lines.

These data provide essentially no information about the relative shapes for $\nu - \nu_o$ greater than approximately 2 cm^{-1} since nearly all the absorption at any point in the interval shown is due to lines whose centers are within this distance. Also, we cannot learn much about the region within 0.2 or 0.3 cm^{-1} from the center because of the averaging by the finite slitwidth.

It is important to consider some of the possible sources of error in these measurements. Besides the usual problems of noise, placement of the background curve, etc., the results are subject to systematic errors if the absorber thickness u is not the same in both samples being compared. For example, if u in Samples A2, A3 and A4 were slightly less than that in

Sample A1, the matching pressure would be increased. Furthermore, the matching pressure would be different at different wavenumbers, even if the shapes $f(\nu)$ were the same for both types of lines, since increasing the pressure has a different effect in the wings of the lines than near the centers. For example, a two percent error in u would probably result in only a 3 or 4% error in B at a point where most of the absorption is due to the wings of lines. This is true because $k(\nu)$ is proportional to pressure in the wings, causing the absorptance to be equally dependent on u and P_e. However, under many conditions, the absorptance observed near the center of the line is more strongly dependent on u than on P_e; in fact, as pointed out above, the absorptance might even decrease with increasing P_e. Therefore, a two percent error in matching u could result in a considerably larger error in the value of B near the line center.

We also obtained spectra over two other short intervals at slightly higher wavenumbers. The calculated values of B also occurred between 4 and 6 with no apparent correlation with distance from line centers.

Two similar sets of measurements were also made with He as the broadening gas instead of N_2. The broadening ability of He was found to be only about 1/5 to 1/4 as great as that of N_2 and, again, there was no correlation between broadening ability and distance from the nearest line centers. Helium was chosen since we have found in another investigation[10] that the distant wings of He-broadened CO_2 lines are much weaker than self-broadened lines having the same half-width. Thus, it seemed appropriate to see if such a phenomenon also existed for He-broadened H_2O lines. Of course, the present results do not provide any information about the relative shapes for $\nu - \nu_o$ greater than about 2 cm^{-1}; but they do indicate that there is not an appreciable difference between He-broadened and self-broadened H_2O lines for smaller $\nu - \nu_o$.

Our results do not rule out the possibility of small variations in B from one line to another; in fact, there are indications of small variations. But, because of the uncertainties in the measurements, differences of only a few percent cannot be observed. However, in the spectral regions covered any possible differences in B between lines is probably less than ± 20%.

It is interesting to compare the results shown in Figure 3-1 with those of a similar set of measurements of CO_2 absorption shown in Figure 3-2. Since the problem of adsorption by CO_2 on the walls of the absorption cell is much less serious than for H_2O, it is possible to measure CO_2 samples more accurately; thus, the reproducibility of the data is better. We see from Figure 3-2 that there is a definite correlation between the matching pressure and the positions relative to the centers of the absorption lines. We obtain a matching pressure of 46 torr, which corresponds to $B \cong 1.2$ near the line centers; but this increases to approximately 1.3 in the regions midway between the lines which are only approximately

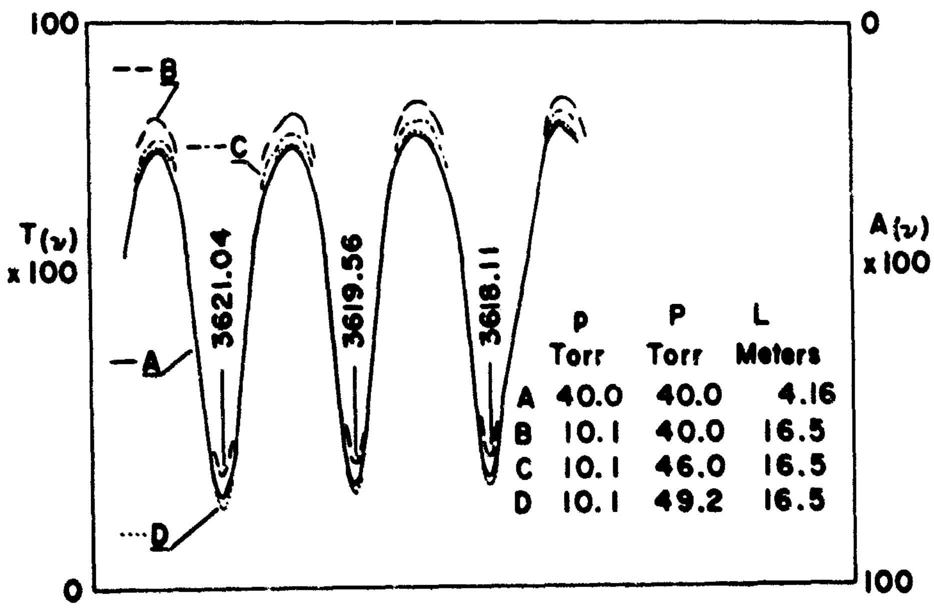


FIG. 3-2 SPECTRA SHOWING COMPARISON OF SELF-BROADENED AND N_2-BROADENED CO_2 LINES.

The pressure of the CO_2 - N_2 mixture that is required to match the pure CO_2 sample is seen to be greater between the lines than near the line centers. Such a correlation between matching pressure and distance from the line centers was not observed for H_2O lines in Fig. 3-1.

0.7 cm^{-1} away. The spectral region shown in Figure 3-2 was chosen because it is relatively free of weaker CO_2 lines arising from transitions from excited states. Therefore, most of the absorption at the points midway between the lines which are apparent is actually due to the wings of the stronger lines and not due to much weaker lines not resolved in the spectra. Similar differences between B near the line centers and in the wings has also been observed with larger samples and in other parts of the spectrum, including the $3\nu_3$ band near 1.4 μ.

On the basis of the results shown in Figure 3-2 we conclude that, unlike H_2O lines, there is a significant difference in the shapes of self-broadened and N_2-broadened CO_2 lines as close in as a few tenths of a cm^{-1} from the line centers. We cannot conclude whether either of these lines has the Lorentz shape, but it is certain that both do not.

A few years ago we[11] carried out a similar set of measurements in order to determine self-broadening coefficients for CO_2 and H_2O. These measurements were made with considerably lower resolution so that it was not possible to observe the regions between individual absorption lines. Therefore, the values of B represented averages over several lines. They appeared to depend somewhat on the position within a band and to a lesser extent upon the pressure and absorber thickness used in the measurements. The values for CO_2 varied between approximately 1.2 and 1.4; so we used 1.3 as an average in the analysis of the data. These results are consistent with the present ones, since in the earlier measurements made with lower resolution, the samples were chosen to provide absorptance sufficiently large that it could be measured with good accuracy. Therefore, regions near the line centers were probably opaque and all of the growth caused by increasing the pressure occurred in the regions between the lines; the effective value of B would then be that corresponding to the wings of the lines.

In regions between lines which are farther apart, it is possible that B would be larger than 1.3, and even as large as 1.4. Similarly, an effective value as small as 1.2 might be appropriate for regions where the lines are close together. It is also possible that there is a small dependence of B on J-value; but the consistency of our results indicates the variation is not more than a few percent.

In the earlier work, we also obtained an effective value of B = 5 for H_2O self-broadening for the bands near the 1.9 and 2.7 μ from measurements made with lower resolution. This result is also in good agreement with those shown in Figure 3-1.

Palmer[12] has published some H_2O data which provide information about self-broadening and N_2-broadening in the 200-600 cm^{-1} region. Palmer's spectra were obtained with a spectral slitwidth between 4 and 10 cm^{-1}, which is sufficiently wide to include several absorption lines. Benedict[12]

suggested an empirical equation based on Palmer's data which relates an effective self-broadening coefficient to the transmittance $T(\nu)$. Written in our notation, it becomes

$$B = 11 - 5\,T(\nu) = 6 + 5\,A(\nu). \tag{3-9}$$

The need for an equation relating B to $T(\nu)$ was attributed to differences in the shapes of self-broadened and N_2-broadened lines; the relative strengths of the wings of the self-broadened lines being greater. When $A(\nu)$ is small, most of the absorption occurs near the line centers; but as $A(\nu)$ approaches unity, the regions near the line centers are opaque and most of the growth occurs in the wings. Therefore, the value of B used for small absorptance should correspond to that near the centers of individual lines, and the value used for large absorptance to wings of the lines.

We see that Palmer's results are quite different from ours. The minimum value (6) of B in Equation (3-9) is larger than any observed by us. Furthermore, we could see no significant difference between the line centers and the wings; but Palmer's data indicates almost a doubling of B. It does not seem probable that such a great difference between the two sets of results could be due to experimental error. Thus, it appears that there is a greater difference between self-broadened and N_2-broadened H_2O lines at the lower wavenumbers studied by Palmer than at higher wavenumbers.

Bignell, Saiedy and Sheppard[13] have also attempted to determine the ratio between self-broadening and N_2-broadening in the region from approximately 800 to 1200 cm^{-1}. Their measurements were made on the absorption of radiation from the sun by H_2O in the earth's atmosphere. They accounted for the very weak H_2O lines which occur in this region and determined a continuum absorption due to the extreme wings of the very strong H_2O lines at higher and lower wavenumbers. Thus, the absorption they measured was due to the extreme wings, and their results would not necessarily be expected to agree with ours. They found that the self-broadening of H_2O in this region was probably as much as 30 times that of N_2-broadening. Such a change in the ratio of self- to N_2-broadening at various distances from the centers of the lines is certainly large and may even appear to be somewhat surprising. But it does not seem too improbable in view of the fact that such great variations have been observed for CO_2 lines by us;[10] these results will be published within the next several weeks.

SECTION 4

3847-3860 and 3895-3932 cm^{-1} REGIONS

4.1 DISCUSSION AND TRANSMISSION SPECTRA

This section deals with two short spectral regions, 3847-3860 cm^{-1} and 3895-3932 cm^{-1}. Copies of the spectra are shown in Figures 4-1 through 4-6; the numbers enclosed in rectangles refer to the numbers assigned to the samples whose parameters are shown in Table 4-1. The numbers shown in the second panel from the top of Figure 4-2 refer to calibration lines whose wavenumbers are given in Table 2-2. The wavenumbers of these lines as well as many others not resolved in the spectra have been tabulated by Gates et al.[1]

Spectra of the two different spectral regions are shown in separate panels in Figure 4-1 through 4-4 for Samples 1 to 16 which were contained in the shorter absorption cell. Samples 17 to 29 were contained in the longer absorption cell; the spectra of these samples are shown in Figures 4-5 and 4-6, where both regions are contained within the same panel. The spectra in the latter two figures were replotted by the technique described in Appendix C of Reference 4 and appear on a scale quite different from that used in the first four figures. Spectra of Samples 23, 26, 27, 28, and 29 are not shown for the 3847-3860 cm^{-1} region since the absorptance is nearly complete at all wavenumbers within this interval.

The two short spectral regions described in this section were studied in considerable detail since they are useful in interpreting spectra of paths through the atmosphere. The 3847-3860 cm^{-1} region contains some very strong lines and is particularly useful for comparison with spectra of relatively small samples of H_2O. As an example, it is useful for interpreting solar spectra obtained from a high altitude balloon or

aircraft where the radiation has passed through only a small amount of H_2O. The other spectral region contains several lines which are much weaker, making it useful for a comparison with samples containing more H_2O, such as the path between the sun and an aircraft or balloon at lower altitudes. Spectra of the 3895-3932 cm^{-1} region can also be useful in placing the curve corresponding to zero absorptance on a solar spectra. By comparing a solar spectrum with one of the laboratory spectra having approximately the same integrated absorptance over a group of lines such as those between 3895 and 3908 cm^{-1}, the average absorptance over the adjacent window from 3908 to 3916 cm^{-1} could be estimated. The average absorptance observed over the window is essentially independent of spectrometer slitwidth provided it is less than about 5 cm^{-1}. Of course, the ratio of the integrated absorptance over the window region to that over the cluster of lines is not constant but depends on the pressure and absorber thickness. But a reasonable estimate of the integrated absorptance, and thus the average absorptance, over the window region can be obtained by such comparison; and since it is small for many samples, the curve corresponding to zero absorptance can be located on a solar spectrum with reasonable accuracy.

4.2 TABLES OF TRANSMITTANCE AND INTEGRATED ABSORPTANCE

Table 4-2 contains values of the observed transmittance $T(\nu)$ versus wavenumber in the 3847-3860 cm^{-1} region. Values are tabulated at intervals of 0.2 cm^{-1}, which is sufficiently close that the original spectra could be reconstructed with little loss of structure by plotting the points and joining them with straight lines. Small errors in such a replotted spectrum would occur near the centers of some of the absorption lines; a little of the line might be "cut off," but the error introduced in the calculation of the integrated absorptance is negligible. Values of $T(\nu) > 1.0$ which appear occasionally in the transmittance tables are a result of noise on the sample spectra.

Table 4-3 consists of values of integrated absorptance $\int_{\nu'}^{\nu} A(\nu)d\nu$ versus wavenumber for the same samples over the same spectral region with values tabulated at intervals of 0.5 cm^{-1}. The lower limit of integration ν' is shown at the top of each column. The integrated absorptance between any two points within the interval can be calculated from the difference between the values tabulated at those two points. The calculations are based on spectra composed of straight lines joining points corresponding to the transmittance values given in Table 4-2.

Tables 4-4 and 4-5 are the tables of transmittance and integrated absorptance, respectively, for the 3895-3932 cm^{-1} region.

TABLE 4-1

SAMPLE PARAMETERS

Sam. No.	p torr	P torr	P_e^* torr	p atm	P atm	P_e^* atm	L Path m	u gm/cm^2
1	4.0	4.0	20	0.00526	0.00526	0.0263	2.10	0.00080
2	4.0	40.0	56	0.00526	0.0526	0.0737	2.10	0.00080
3	4.0	210	226	0.00526	0.276	0.297	2.10	0.00080
4	4.0	745	761	0.00526	0.980	1.001	2.10	0.00080
5	6.4	6.4	32	0.00842	0.00842	0.0421	4.16	0.00260
6	6.4	46.0	71.6	0.00842	0.0605	0.0942	4.16	0.00260
7	6.4	200	226	0.00842	0.263	0.297	4.16	0.00260
8	6.4	731	757	0.00842	0.962	0.996	4.16	0.00260
9	6.4	6.4	32	0.00842	0.00842	0.0421	12.4	0.00772
10	6.4	46.0	71.6	0.00842	0.0605	0.0942	12.4	0.00772
11	6.4	200	226	0.00842	0.263	0.297	12.4	0.00772
12	6.4	731	757	0.00842	0.962	0.996	12.4	0.00772
13	6.4	6.4	32	0.00842	0.00842	0.0421	32.9	0.0205
14	6.4	46.0	71.6	0.00842	0.0605	0.0942	32.9	0.0205
15	6.4	200	226	0.00842	0.263	0.297	32.9	0.0205
16	6.4	731	757	0.00842	0.962	0.996	32.9	0.0205
17	0.48	0.48	2.40	0.00063	0.00063	0.00316	469	0.0219
18	1.95	1.95	9.75	0.00256	0.00256	0.0128	237	0.0450
19	3.80	57.0	72.2	0.00500	0.0750	0.0950	121	0.0448
20	7.50	7.50	37.5	0.00987	0.00987	0.0493	121	0.0885
21	7.52	38.8	68.9	0.00989	0.0511	0.0907	121	0.0887
22	7.35	192	221	0.00967	0.253	0.291	121	0.0867
23	7.35	723	752	0.00967	0.951	0.989	121	0.0867
24	7.50	7.50	37.5	0.00987	0.00987	0.0493	469	0.343
25	7.47	38.7	68.6	0.00983	0.0509	0.0903	469	0.341
26	7.47	192	222	0.00983	0.253	0.292	469	0.341
27	7.52	7.52	37.6	0.00989	0.00989	0.0495	933	0.684
28	15.3	15.3	76.5	0.0201	0.0201	0.1006	469	0.699
29	15.3	1525	1586	0.0201	2.01	2.08	469	0.697

*P_e = P + 4p in accordance with Equation (3-8) and the results of Section 3.
All samples were at room temperature, 296°K.

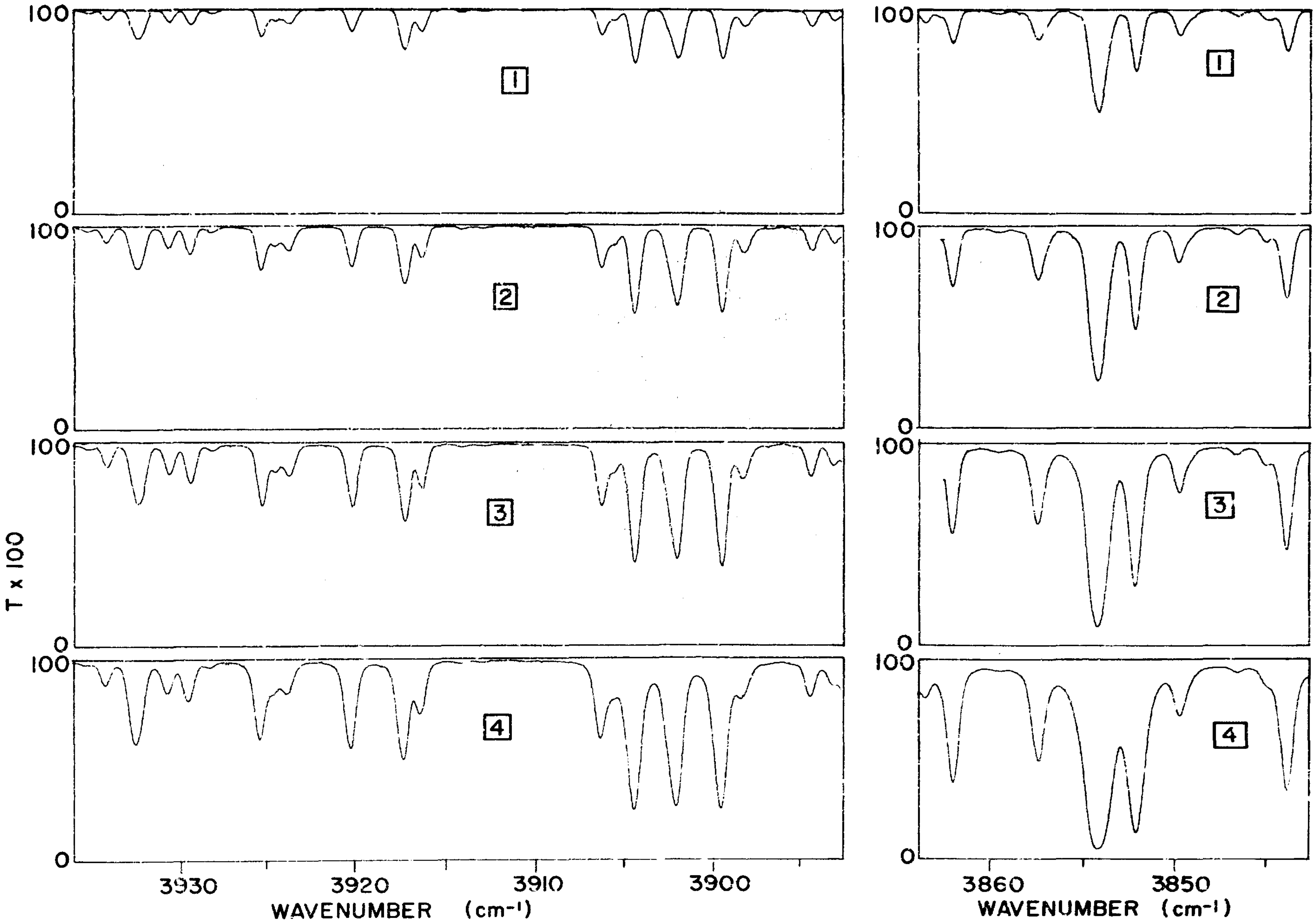

100
0
T x 100
1
2
3
4
3930
3920
3910
3900
3860
3850
WAVENUMBER (cm-1)
WAVENUMBER (cm-1)

Fig. 4-1

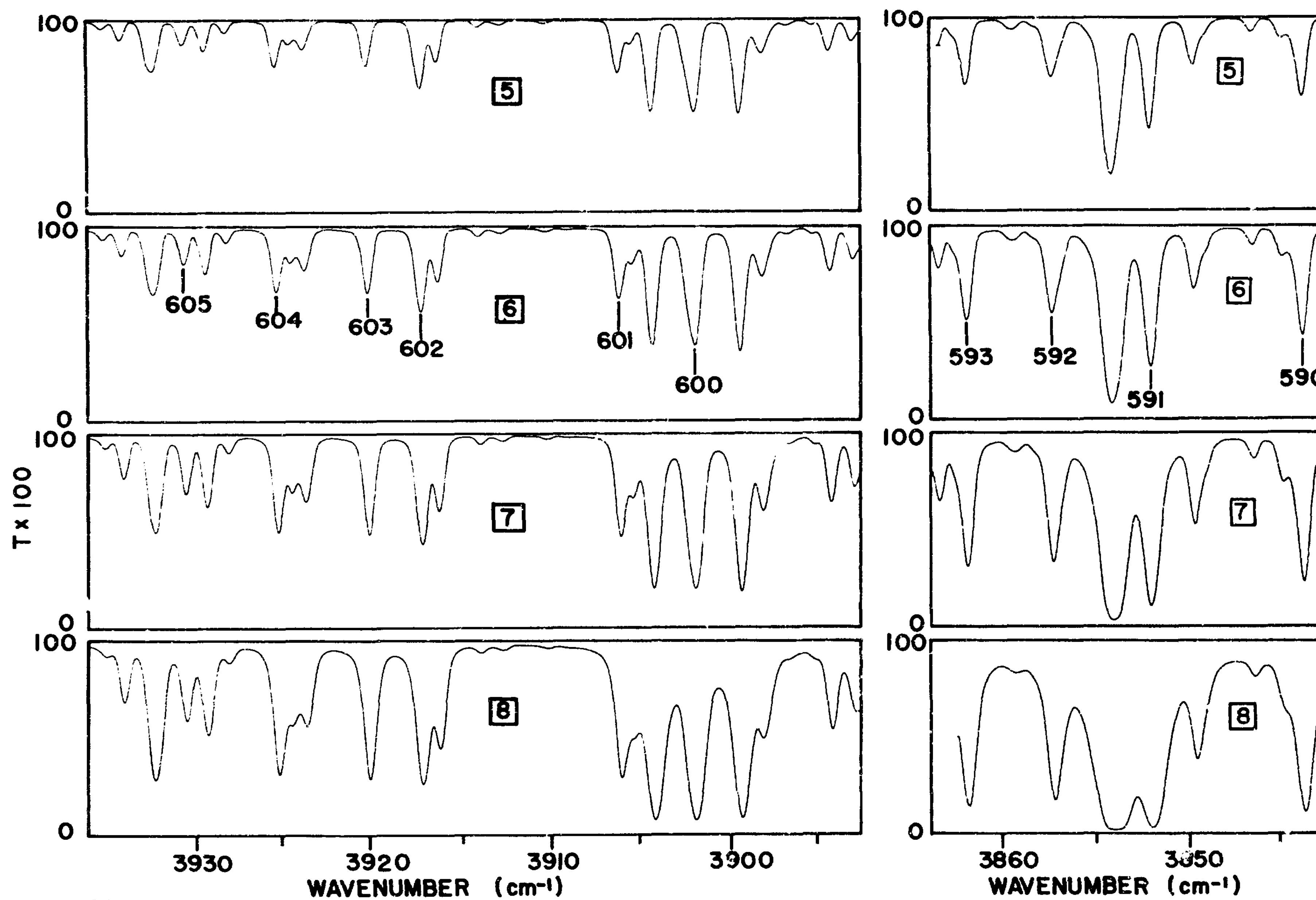

T x 100
100
0
5
6
7
8
605
604
603
602
601
600
593
592
591
590
3930
3920
3910
3900
WAVENUMBER (cm-1)
3860
3850
WAVENUMBER (cm-1)

Fig.4–2

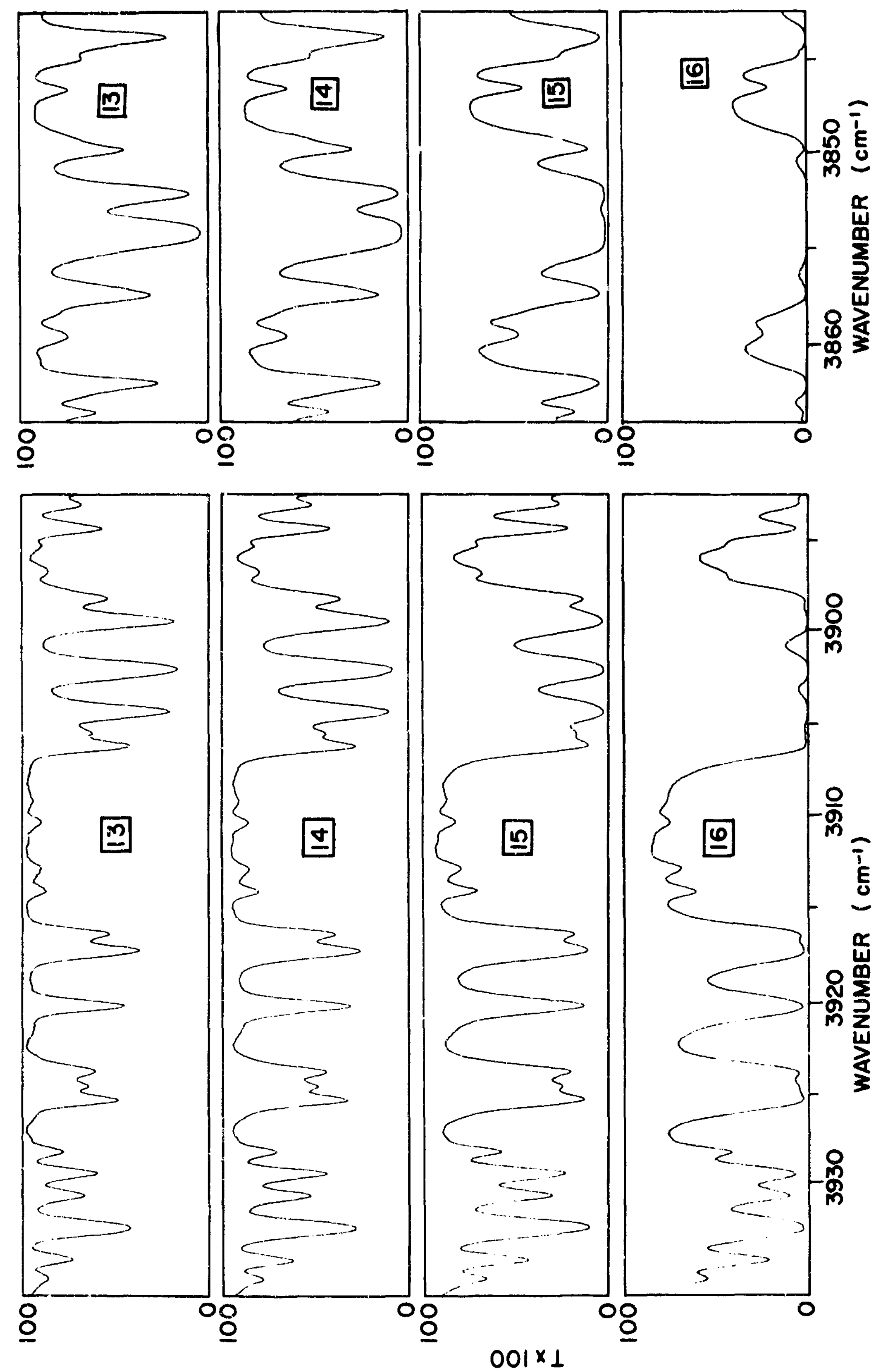
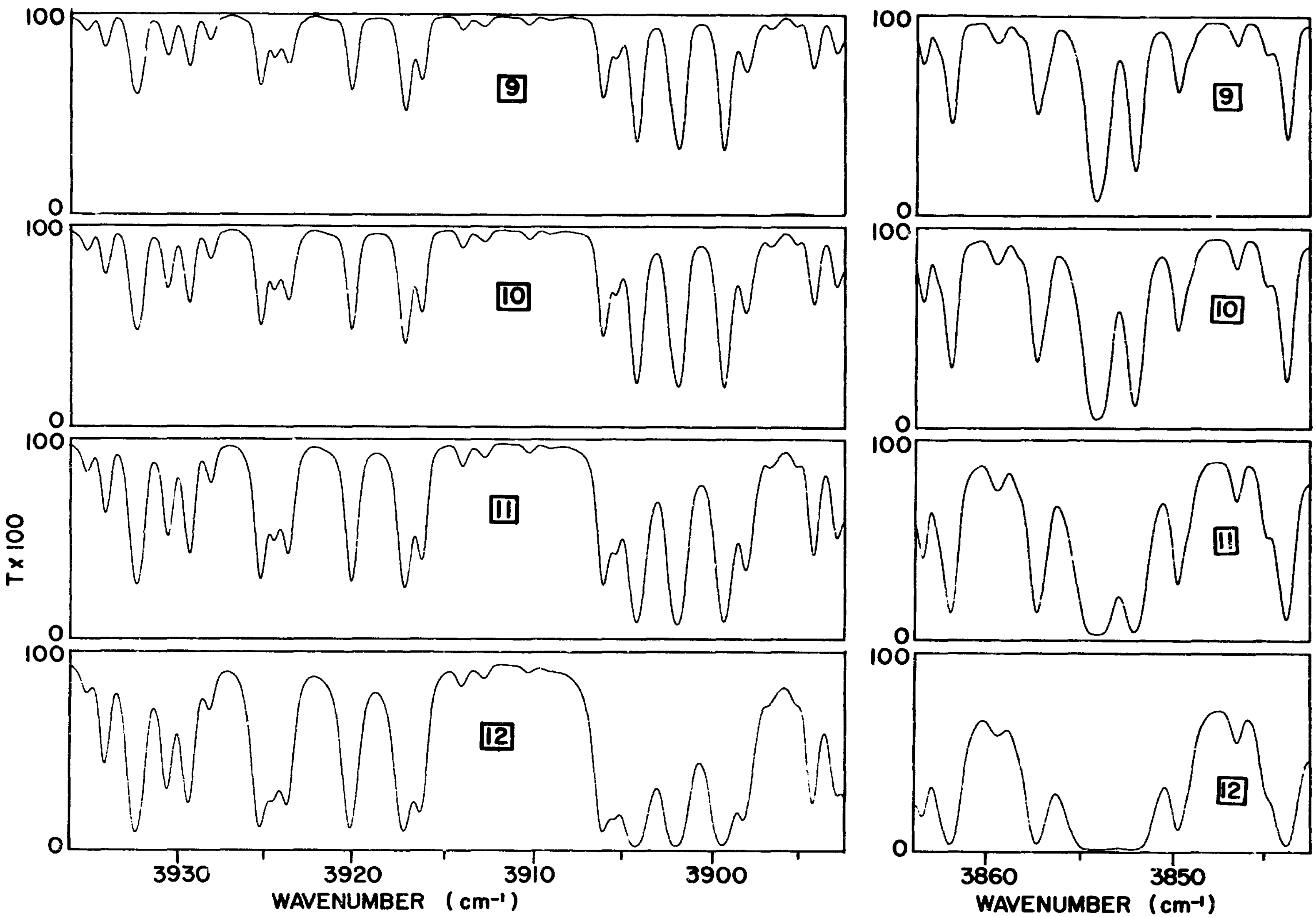

13
14
15
16
100
0
T x 100
3930
3920
3910
3900
3860
3850
WAVENUMBER (cm⁻¹)

Fig.4-4



Tx100
100
0
9
10
11
12
3930
3920
3910
3900
WAVENUMBER (cm⁻¹)
3860
3850
WAVENUMBER (cm⁻¹)

Fig. 4-3

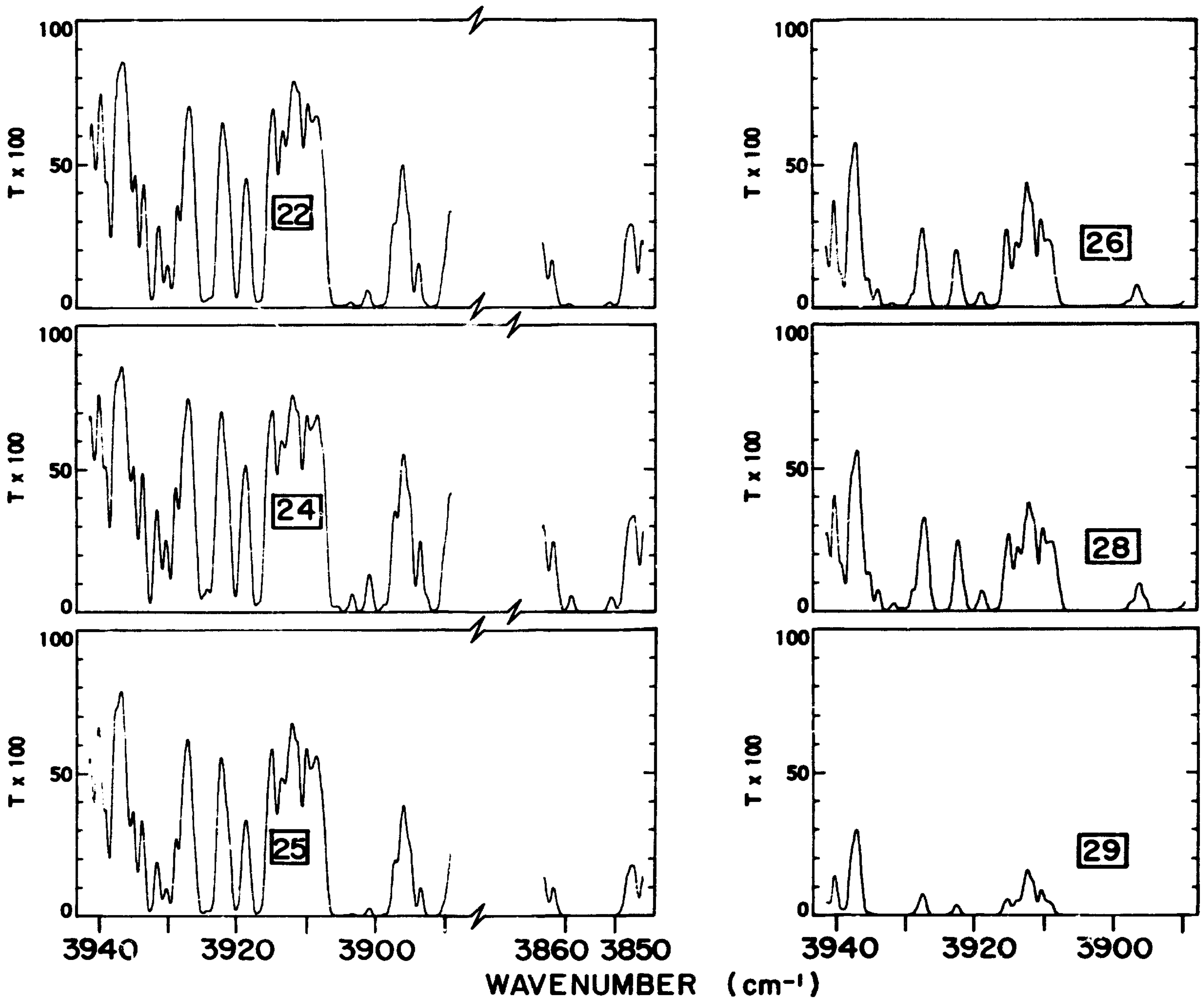

100
50
0
T x 100
22
24
25
26
28
29
3940
3920
3900
3860 3850
WAVENUMBER (cm⁻¹)

Fig. 4-6

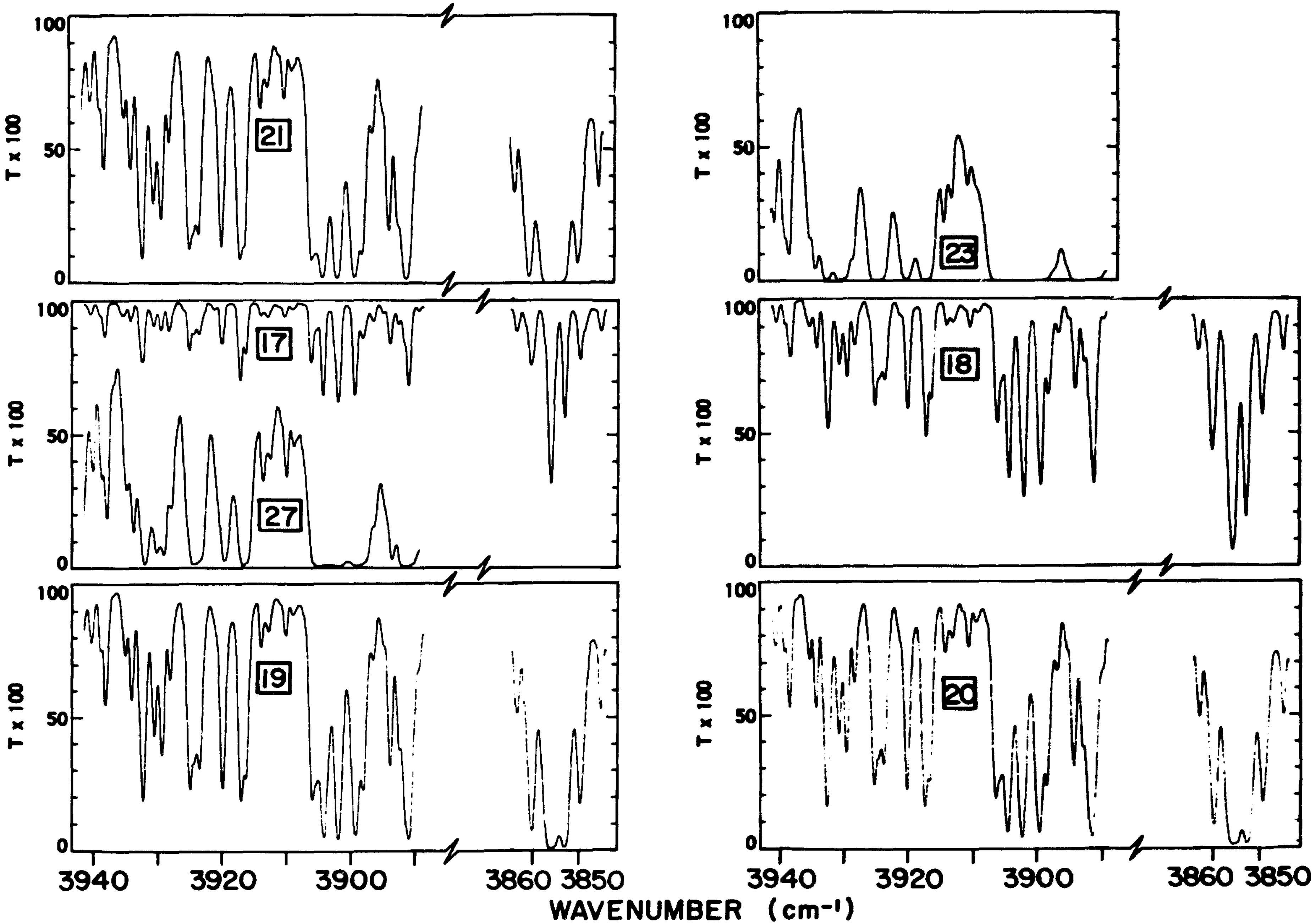

T x 100
100
50
0
21
23
17
27
18
19
20
3940
3920
3900
3860 3850
WAVENUMBER (cm⁻¹)

Fig. 4-5

Table 4-2

Sam. No.		1	2	3	4	5	6	7	8	9	10	11
p(atm)		5.26 × 10^{-3}	5.26 × 10^{-3}	5.26 × 10^{-3}	5.26 × 10^{-3}	8.42 × 10^{-3}	8.42 × 10^{-3}	8.42 × 10^{-3}	8.42 × 10^{-3}	8.42 × 10^{-3}	8.42 × 10^{-3}	8.42 × 10^{-3}
P_e(atm)		2.63 × 10^{-2}	7.37 × 10^{-2}	2.97 × 10^{-1}	1.001 × 10^{0}	4.21 × 10^{-2}	9.42 × 10^{-2}	2.97 × 10^{-1}	9.96 × 10^{-1}	4.21 × 10^{-2}	9.42 × 10^{-2}	2.97 × 10^{-1}
u(gm/cm²)		8.0 × 10^{-4}	8.0 × 10^{-4}	8.0 × 10^{-4}	8.0 × 10^{-4}	2.60 × 10^{-3}	2.60 × 10^{-3}	2.60 × 10^{-3}	2.60 × 10^{-3}	7.72 × 10^{-3}	7.72 × 10^{-3}	7.72 × 10^{-3}
ν (cm⁻¹)	λ (micron)	T × 100	T × 100	T × 100	T × 100	T × 100	T × 100	T × 100	T × 100	T × 100	T × 100	T × 100
3847.0	2.59963	99.4	98.0	96.9	95.1	98.4	97.6	95.3	88.6	94.1	93.6	87.5
3847.2	2.59929	99.8	98.5	97.5	95.7	99.0	98.0	96.1	89.0	95.1	94.6	89.0
3847.4	2.59916	99.7	98.7	97.6	96.0	99.1	98.0	96.4	89.0	95.2	94.9	89.1
3847.6	2.59902	99.7	98.7	97.7	96.1	99.1	97.9	96.4	88.8	95.2	95.0	89.1
3847.8	2.59889	99.8	98.6	97.6	95.9	99.0	97.9	96.4	88.4	95.0	95.1	88.9
3848.0	2.59875	99.6	98.4	97.6	95.8	99.0	97.5	96.1	87.6	94.5	94.8	88.3
3848.2	2.59862	99.6	98.4	97.5	95.6	98.4	96.8	95.6	86.0	93.1	93.2	86.4
3848.4	2.59848	99.3	98.2	97.3	95.3	97.6	95.8	94.3	83.8	91.0	91.0	83.0
3848.6	2.59835	98.7	97.7	96.6	94.4	96.4	92.6	92.2	79.2	88.0	86.8	77.4
3848.8	2.59821	97.4	96.4	95.3	93.1	94.0	88.9	87.4	72.4	83.6	81.0	67.5
3849.0	2.59808	95.3	94.4	92.5	90.6	91.1	85.1	81.0	63.6	79.8	75.1	57.0
3849.2	2.59794	94.0	92.3	90.0	87.5	88.4	79.4	75.0	52.5	74.5	68.5	48.5
3849.4	2.59781	91.1	88.8	85.4	82.4	82.8	71.8	65.2	41.6	65.6	58.7	37.8
3849.6	2.59767	87.8	83.6	79.0	75.6	76.0	69.6	56.1	40.0	60.6	51.5	30.2
3849.8	2.59754	89.1	82.5	76.5	72.3	78.4	77.5	58.7	50.4	68.8	57.6	36.6
3850.0	2.59740	93.5	87.2	81.7	76.0	87.2	87.1	71.8	61.8	80.5	71.4	52.8
3850.2	2.59727	97.2	93.1	89.0	82.5	93.9	92.7	83.1	67.1	87.4	81.8	65.3
3850.4	2.59713	98.7	96.4	93.4	86.7	96.8	94.5	87.5	67.0	90.0	85.8	68.9
3850.6	2.59700	99.1	97.3	94.7	87.8	97.6	94.6	87.6	63.4	93.8	86.5	67.1
3850.8	2.59686	99.2	97.4	94.2	86.8	97.5	93.5	85.5	56.6	89.8	84.8	61.7
3851.0	2.59673	99.0	96.6	93.2	84.2	96.7	91.0	81.3	46.5	87.0	80.3	52.8
3851.2	2.59659	96.5	95.9	91.1	79.1	94.7	85.1	73.6	33.0	80.5	71.5	39.7
3851.4	2.59646	96.9	93.4	86.7	70.3	89.6	73.2	59.9	19.7	67.6	56.8	24.7
3851.6	2.59632	91.4	86.9	77.2	56.9	77.8	52.4	40.5	10.0	48.3	37.0	12.6
3851.8	2.59619	81.1	73.3	59.7	39.0	58.3	34.7	22.1	5.0	28.8	19.7	6.2
3852.0	2.59605	71.4	56.1	39.5	22.5	42.8	32.0	13.1	4.0	22.2	13.2	4.1
3852.2	2.59592	73.9	51.1	31.3	14.4	49.1	46.0	16.7	6.2	34.9	19.4	5.6
3852.4	2.59578	85.7	64.6	42.7	19.7	69.8	65.2	30.1	10.9	56.0	34.7	10.6
3852.6	2.59565	94.7	81.6	62.3	33.5	85.3	78.2	46.2	16.4	70.8	53.2	17.4
3852.8	2.59551	97.2	93.4	76.7	48.1	91.1	82.2	56.0	18.9	76.5	58.9	21.6
3853.0	2.59538	97.2	91.8	81.3	55.4	90.5	76.3	56.4	16.1	72.7	56.4	20.6
3853.2	2.59525	92.9	87.5	76.6	52.7	82.1	61.1	46.9	10.3	57.5	42.8	14.8
3853.4	2.59511	95.7	76.8	63.3	41.5	66.5	41.0	30.7	5.5	37.1	25.3	8.3
3853.6	2.59498	74.7	60.4	43.7	26.1	48.5	24.2	15.6	3.2	20.6	12.0	4.3
3853.8	2.59484	61.6	42.7	26.1	13.4	31.5	13.8	7.1	2.8	11.3	5.9	2.8
3854.0	2.59471	51.9	23.3	14.5	7.2	21.0	10.5	4.7	2.7	7.4	4.5	2.4
3854.2	2.59457	57.1	24.5	10.2	5.4	20.4	15.3	4.3	2.8	10.0	5.3	2.4
3854.4	2.59444	62.0	30.6	13.9	6.3	32.6	31.0	6.1	4.0	22.0	11.3	2.9
3854.6	2.59430	76.7	48.3	27.4	11.8	54.8	52.2	13.2	8.2	41.7	23.2	4.8
3854.8	2.59417	90.6	71.0	49.2	24.0	76.7	70.8	26.7	16.0	61.1	33.8	9.6
3855.0	2.59403	95.6	85.9	69.5	41.5	86.7	80.9	44.3	27.1	72.1	54.6	18.1
3855.2	2.59390	97.0	91.5	81.1	57.7	90.5	86.8	59.9	38.2	78.9	66.8	29.5
3855.4	2.59376	98.0	94.0	86.9	68.7	93.3	90.7	70.3	48.3	84.6	76.0	41.1
3855.6	2.59363	98.6	95.7	90.3	76.3	95.7	93.1	77.7	56.6	88.5	82.1	51.6
3855.8	2.59350	99.3	96.8	92.8	81.4	97.1	94.3	82.6	62.2	90.4	85.5	60.2
3856.0	2.59336	99.2	97.1	93.8	84.4	97.3	93.9	85.5	65.0	90.8	86.5	65.5
3856.2	2.59323	98.9	97.2	94.3	86.2	96.7	91.0	86.4	64.1	88.7	83.6	67.3
3856.4	2.59309	97.7	96.2	93.6	86.4	93.5	85.0	83.5	58.0	82.2	75.3	63.8
3856.6	2.59296	95.5	93.9	91.5	85.2	87.8	76.7	75.2	46.7	73.6	63.7	52.2
3856.8	2.59282	92.3	89.8	86.8	80.6	81.7	68.6	63.3	32.2	64.4	51.4	37.3
3857.0	2.59269	89.1	83.5	77.7	70.7	75.2	60.7	48.9	21.0	55.7	41.6	24.9
3857.2	2.59255	86.3	76.7	66.5	57.3	70.2	59.0	37.6	21.5	50.6	36.4	16.7
3857.4	2.59242	86.6	74.5	61.1	50.3	72.5	66.4	38.6	35.7	56.7	42.2	15.9
3857.6	2.59229	91.0	80.3	67.8	57.0	82.5	79.9	56.3	55.0	71.4	59.3	27.2
3857.8	2.59215	96.0	89.9	81.8	73.0	91.6	89.8	76.5	69.5	82.6	75.8	48.8
3858.0	2.59202	98.1	95.3	91.1	94.5	94.8	92.8	85.8	76.5	86.7	83.2	64.2
3858.2	2.59188	98.6	96.6	94.6	90.3	95.4	94.1	89.0	80.4	88.0	86.1	71.8
3858.4	2.59175	99.0	97.4	95.8	92.4	96.4	95.5	91.1	83.0	90.4	89.0	76.3
3858.6	2.59161	99.3	97.9	96.5	93.7	97.6	96.1	92.8	84.4	92.6	91.4	81.5
3858.8	2.59148	99.3	98.1	96.8	94.5	97.6	95.4	92.6	84.2	91.7	90.8	83.4
3859.0	2.59134	98.8	97.7	96.6	94.7	95.9	93.9	91.1	83.7	88.2	87.6	81.2
3859.2	2.59121	98.2	97.1	96.1	94.5	94.4	93.0	90.0	83.5	85.2	84.4	77.5
3859.4	2.59108	98.2	97.0	95.9	94.1	93.9	93.1	89.9	84.3	84.4	83.7	75.5
3859.6	2.59094	98.7	97.3	96.3	94.6	94.8	94.5	91.3	85.5	86.6	86.1	77.1
3859.8	2.59081	99.3	[illegible]	96.8	94.7	96.5	96.1	93.2	86.4	90.4	89.6	81.4
3860.0	2.59067	99.6	94.5	97.4	95.7	98.0	97.0	94.1	86.5	93.2	92.5	85.3

Sam. No.	12	13	14	15	16	17	18	19	20	21	22	24	25
p(atm)	8.42 × 10^{-3}	8.42 × 10^{-3}	8.42 × 10^{-3}	8.42 × 10^{-3}	8.42 × 10^{-3}	6.3 × 10^{-4}	2.6 × 10^{-3}	5.0 × 10^{-3}	9.87 × 10^{-3}	9.80 × 10^{-3}	9.67 × 10^{-3}	9.87 × 10^{-3}	9.83 × 10^{-3}
P_e(atm)	9.96 × 10^{-1}	4.21 × 10^{-2}	9.42 × 10^{-2}	2.97 × 10^{-1}	9.96 × 10^{-1}	3.16 × 10^{-3}	1.23 × 10^{-2}	9.30 × 10^{-2}	4.93 × 10^{-2}	9.07 × 10^{-2}	2.91 × 10^{-1}	4.93 × 10^{-2}	9.03 × 10^{-2}
u(gm/cm²)	7.72 × 10^{-3}	2.05 × 10^{-2}	2.05 × 10^{-2}	2.05 × 10^{-2}	2.05 × 10^{-2}	2.19 × 10^{-2}	4.50 × 10^{-2}	4.48 × 10^{-2}	8.85 × 10^{-2}	8.87 × 10^{-2}	8.67 × 10^{-2}	3.43 × 10^{-1}	3.41 × 10^{-1}
ν (cm⁻¹)	T × 100	T × 100	T × 100	T × 100	T × 100	T × 100	T × 100	T × 100	T × 100	T × 100	T × 100	T × 100	T × 100
3847.0	69.1	89.6	80.4	70.9	39.1	95.1	92.1	75.4	70.4	56.9	26.0	31.2	15.0
3847.2	70.4	91.0	84.5	73.3	40.5	96.6	93.5	77.9	73.0	60.6	26.4	33.7	17.5
3847.4	70.7	91.4	85.8	73.7	40.7	96.8	94.2	78.7	73.6	61.2	28.7	33.7	17.8
3847.6	70.4	91.6	85.7	73.6	40.4	96.9	94.3	78.3	73.4	61.2	28.2	33.1	17.6
3847.8	69.5	91.5	85.7	72.9	39.0	97.1	94.2	77.8	72.6	60.1	27.1	32.2	16.6
3848.0	67.8	91.3	85.7	71.7	36.4	97.1	93.5	75.1	70.8	58.2	25.1	30.3	15.1
3848.2	65.3	89.4	84.6	67.4	33.0	96.2	91.1	70.3	66.5	54.2	21.9	26.8	13.4
3848.4	61.0	85.8	80.9	61.1	28.2	94.6	87.7	62.6	59.7	48.6	16.6	22.3	10.0
3848.6	54.1	81.6	75.8	52.8	21.8	92.8	83.2	56.5	51.3	39.6	10.4	16.9	6.6
3848.8	43.9	75.3	69.3	41.3	14.7	90.6	78.2	46.9	43.2	31.4	6.5	11.0	4.0
3849.0	33.0	69.1	60.7	29.9	8.4	89.1	73.1	37.4	35.5	23.6	3.5	6.2	2.3
3849.2	23.6	64.0	52.6	22.5	4.7	87.2	69.5	29.9	28.0	16.3	1.4	3.4	1.3
3849.4	15.8	54.2	44.6	15.4	3.0	83.5	62.6	22.1	21.9	11.0	0.8	2.1	0.8
3849.6	11.8	45.2	34.8	11.6	2.3	79.3	57.2	18.4	18.3	8.3	0.7	1.6	0.4
3849.8	16.3	51.2	31.7	16.5	2.9	79.3	59.8	20.5	20.5	9.2	0.6	2.7	0.2
3850.0	25.0	65.4	41.5	27.0	5.0	84.5	69.7	30.6	29.2	14.2	0.9	3.8	0.
3850.2	31.2	75.7	55.7	35.8	6.1	91.4	79.5	41.2	39.6	19.8	1.4	4.8	0.
3850.4	32.4	80.2	64.4	37.7	6.1	94.2	85.0	45.4	43.3	23.5	1.5	5.3	0.
3850.6	29.0	81.3	67.5	34.7	4.9	95.5	86.0	43.7	41.7	22.0	1.3	4.9	0.
3850.8	23.0	79.9	66.4	28.7	2.9	96.4	84.3	38.1	37.0	18.2	0.9	3.7	0.
3851.0	16.0	75.2	61.0	20.5	1.7	95.6	80.6	31.0	29.4	12.4	0.6	2.5	0.
3851.2	9.6	65.4	51.9	12.2	1.2	92.8	75.7	22.5	19.5	6.7	0.2	1.3	0.
3851.4	5.1	49.8	38.9	6.3	0.9	87.9	64.0	12.3	12.2	2.9	0.0	0.7	0.
3851.6	3.0	31.7	23.4	3.4	0.7	78.8	46.8	5.6	6.3	1.7	0.	0.2	0.
3851.8	2.2	16.2	11.5	2.1	1.1	66.7	31.6	2.8	3.2	0.9	0.	0.	0.
3852.0	1.8	10.2	5.9	1.8	0.7	58.6	21.0	1.6	2.4	0.5	0.	0.	0.
3852.2	1.8	15.4	5.3	1.6	0.6	59.8	21.4	1.3	2.3	0.5	0.	0.	0.
3852.4	1.9	29.5	9.0	2.2	0.7	74.6	30.7	2.0	3.3	0.5	0.	0.	0.
3852.6	2.2	44.4	17.0	3.1	0.7	86.9	44.8	3.0	4.5	0.5	0.	0.	0.
3852.8	2.3	53.1	24.7	3.6	0.7	91.9	57.2	4.9	6.1	0.5	0.	0.	0.
3853.0	2.3	50.9	26.7	3.1	0.7	90.7	59.6	5.1	6.5	0.5	0.	0.	0.
3853.2	1.9	38.3	22.0	2.2	0.7	85.6	54.2	4.0	5.7	0.6	0.	0.	0.
3853.4	1.7	22.4	13.7	1.5	0.7	77.6	45.0	2.5	3.9	0.5	0.	0.	0.
3853.6	1.6	10.5	6.7	1.3	0.5	69.3	31.1	1.6	2.7	0.3	0.	0.	0.
3853.8	1.6	5.3	3.6	1.7	0.4	56.3	17.4	1.2	2.0	0.3	0.	0.	0.
3854.0	1.7	4.3	2.6	1.5	0.4	43.3	9.9	1.0	1.9	0.3	0.	0.	0.
3854.2	1.6	5.3	2.7	1.3	0.8	34.6	5.9	0.8	1.9	0.3	0.	0.	0.
3854.4	1.6	9.6	3.3	1.5	0.7	32.1	5.8	0.8	1.9	0.3	0.	0.	0.
3854.6	1.9	19.9	5.6	1.6	0.7	41.8	9.9	0.9	1.9	0.3	0.	0.	0.
3854.8	2.5	34.6	11.2	2.2	0.7	59.0	17.5	1.8	2.7	0.3	0.	0.	0.
3855.0	4.6	48.1	21.2	3.6	0.5	78.1	30.2	4.8	4.6	0.8	0.	0.	0.
3855.2	8.2	59.3	33.3	7.1	0.7	85.3	47.4	10.4	8.5	2.2	0.	0.1	0.
3855.4	13.5	69.8	45.9	13.2	1.3	89.8	63.0	17.9	16.0	5.2	0.1	0.7	0.
3855.6	19.7	77.2	56.4	20.2	2.3	93.4	75.9	28.0	27.0	10.0	0.1	1.6	0.
3855.8	25.2	81.6	64.1	27.0	3.4	95.4	83.2	37.3	36.2	15.0	0.3	3.1	0.
3856.0	28.9	82.6	67.6	32.4	4.5	96.3	86.7	43.7	43.5	20.0	0.6	5.0	0.
3856.2	29.5	79.7	67.0	35.5	4.7	95.9	86.4	44.8	45.5	23.2	1.0	5.9	0.
3856.4	25.8	71.5	60.3	34.4	4.0	93.8	82.4	40.8	40.9	22.4	1.0	5.8	0.
3856.6	19.1	59.2	48.5	27.4	2.7	88.8	74.2	32.7	32.6	18.4	0.9	4.2	0.
3856.8	11.7	47.0	35.0	18.1	1.6	84.6	65.4	22.1	23.2	12.0	0.6	2.6	0.
3857.0	6.6	37.2	25.0	10.4	0.6	80.9	55.4	14.0	14.7	6.5	0.5	1.6	0.
3857.2	5.2	31.9	18.4	5.9	1.0	78.3	48.9	9.1	10.1	3.6	0.5	1.0	0.
3857.4	9.7	39.1	19.4	4.5	1.8	76.5	43.8	8.1	7.2	3.1	0.5	0.9	0.2
3857.6	20.3	57.1	32.4	7.6	4.3	78.5	45.0	13.4	15.4	6.1	0.7	1.7	0.5
3857.8	33.6	71.8	51.0	18.4	8.2	84.7	57.0	30.2	29.5	13.8	1.9	3.8	1.2
3858.0	44.0	77.8	62.9	31.4	13.8	89.6	70.9	43.0	44.3	22.2	4.2	7.6	2.4
3858.2	51.7	81.0	68.8	41.2	17.9	91.6	81.2	53.8	54.0	31.6	7.5	12.0	3.9
3858.4	57.7	85.5	73.5	48.1	23.6	93.8	86.4	62.8	62.5	40.7	10.6	17.3	6.4
3858.6	61.8	89.0	78.9	56.1	27.9	95.2	90.0	67.9	65.9	47.9	15.4	23.5	9.5
3858.8	62.6	87.3	80.4	61.4	28.8	95.4	90.6	65.3	62.1	48.8	15.9	24.6	9.8
3859.0	61.2	81.2	75.4	60.9	27.2	93.1	87.7	58.1	55.5	42.7	13.0	22.2	7.7
3859.2	60.2	76.5	69.0	54.7	25.8	90.2	83.4	52.8	50.1	36.0	10.1	16.6	5.5
3859.4	60.9	75.7	65.8	49.4	26.4	88.8	80.6	52.2	50.3	34.7	10.2	14.8	5.3
3859.6	63.2	79.2	68.0	48.7	29.4	89.9	82.0	58.1	56.5	40.0	14.2	17.9	7.6
3859.8	66.0	85.6	73.9	54.7	[illegible]	93.3	87.2	68.4	65.8	48.1	19.1	24.7	11.2
3860.0	67.3	90.2	80.4	62.4	34.6	96.2	91.9	74.1	71.5	56.2	22.1	29.6	13.5

Table 4-3 $\int_{\nu'}^{\nu} A(\nu)\,d\nu$

Sam. No.	1	2	3	4	5	6	7	8	9	10	11	12
p(atm)	5.26 x 10^{-3}	5.26 x 10^{-3}	5.26 x 10^{-3}	5.26 x 10^{-3}	8.42 x 10^{-3}	8.42 x 10^{-3}	8.42 x 10^{-3}	8.42 x 10^{-3}	8.42 x 10^{-3}	8.42 x 10^{-3}	8.42 x 10^{-3}	8.42 x 10^{-3}
P_e(atm)	2.63 x 10^{-2}	7.37 x 10^{-2}	2.97 x 10^{-1}	1.001 x 10^{0}	4.21 x 10^{-2}	9.42 x 10^{-2}	2.97 x 10^{-1}	9.96 x 10^{-1}	4.21 x 10^{-2}	9.42 x 10^{-2}	2.97 x 10^{-1}	9.96 x 10^{-1}
u(gm/cm^2)	8.0 x 10^{-4}	8.0 x 10^{-4}	8.0 x 10^{-4}	8.0 x 10^{-4}	2.60 x 10^{-3}	2.60 x 10^{-3}	2.60 x 10^{-3}	2.60 x 10^{-3}	7.72 x 10^{-3}	7.72 x 10^{-3}	7.72 x 10^{-3}	7.72 x 10^{-3}
ν (cm^{-1})	ν'=3847 cm^{-1}	ν'=3847 cm^{-1}	ν'=3847 cm^{-1}	ν'=3847 cm^{-1}	ν'=3847 cm^{-1}	ν'=3847 cm^{-1}	ν'=3847 cm^{-1}	ν'=3847 cm^{-1}	ν'=3847 cm^{-1}	ν'=3847 cm^{-1}	ν'=3847 cm^{-1}	ν'=3847 cm^{-1}
3847.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
3847.5	0.002	0.006	0.013	0.022	0.005	0.011	0.020	0.055	0.025	0.027	0.056	0.149
3848.0	0.003	0.015	0.025	0.042	0.010	0.021	0.038	0.113	0.051	0.053	0.112	0.301
3848.5	0.006	0.023	0.038	0.065	0.020	0.039	0.063	0.187	0.089	0.091	0.186	0.482
3849.0	0.019	0.040	0.061	0.099	0.047	0.091	0.122	0.319	0.165	0.179	0.338	0.752
3849.5	0.052	0.085	0.119	0.170	0.116	0.203	0.263	0.568	0.306	0.351	0.610	1.141
3850.0	0.104	0.164	0.225	0.297	0.218	0.322	0.460	0.825	0.466	0.560	0.922	1.559
3850.5	0.119	0.197	0.276	0.382	0.249	0.360	0.547	0.996	0.530	0.653	1.101	1.907
3851.0	0.123	0.211	0.307	0.449	0.262	0.393	0.619	1.208	0.582	0.730	1.290	2.287
3851.5	0.134	0.238	0.361	0.569	0.300	0.491	0.776	1.559	0.704	0.898	1.612	2.742
3852.0	0.217	0.360	0.545	0.852	0.482	0.779	1.133	2.022	1.022	1.267	2.067	3.229
3852.5	0.324	0.568	0.853	1.257	0.698	1.022	1.522	2.482	1.315	1.642	2.529	3.720
3853.0	0.345	0.637	0.996	1.542	0.758	1.128	1.765	2.897	1.451	1.871	2.932	4.208
3853.5	0.394	0.720	1.142	1.802	0.875	1.351	2.057	3.350	1.693	2.182	3.366	4.699
3854.0	0.567	0.981	1.483	2.212	1.189	1.761	2.504	3.834	2.118	2.638	3.849	5.191
3854.5	0.783	1.337	1.717	2.680	1.557	2.152	2.976	4.317	2.542	3.097	4.335	5.683
3855.0	0.656	1.517	2.196	3.067	1.713	2.331	3.354	4.743	2.769	3.420	4.789	6.170
3855.5	0.871	1.559	2.291	3.272	1.758	2.394	3.547	5.040	2.869	3.578	5.127	6.620
3856.0	0.876	1.578	2.332	3.374	1.776	2.426	3.643	5.240	2.921	3.657	5.340	7.003
3856.5	0.884	1.594	2.353	3.445	1.799	2.482	3.720	5.434	2.991	3.756	5.516	7.365
3857.0	0.919	1.643	2.426	3.543	1.884	2.629	3.892	5.752	3.157	3.981	5.809	7.795
3857.5	0.983	1.755	2.594	3.756	2.020	2.814	4.186	6.112	3.383	4.278	6.216	8.256
3858.0	1.012	1.821	2.705	3.913	2.080	2.885	4.339	6.291	3.492	4.429	6.503	8.607
3858.5	1.018	1.837	2.733	3.963	2.101	2.913	4.393	6.388	3.548	4.495	6.641	8.843
3859.0	1.022	1.848	2.750	3.992	2.115	2.936	4.431	6.467	3.591	4.543	6.731	9.034
3859.5	1.031	1.862	2.769	4.020	2.143	2.970	4.480	6.547	3.664	4.619	6.843	9.230
3860.0	1.035	1.873	2.786	4.046	2.162	2.992	4.517	6.617	3.717	4.676	6.942	9.405

Sam. No.	13	14	15	16	17	18	19	20	21	22	24	25
p(atm)	8.42 x 10^{-3}	8.42 x 10^{-3}	8.42 x 10^{-3}	8.42 x 10^{-3}	6.3 x 10^{-4}	2.6 x 10^{-3}	5.0 x 10^{-3}	9.87 x 10^{-3}	9.89 x 10^{-3}	9.67 x 10^{-3}	9.87 x 10^{-3}	9.83 x 10^{-3}
P_e(atm)	4.21 x 10^{-2}	9.42 x 10^{-2}	2.97 x 10^{-1}	9.96 x 10^{-1}	3.16 x 10^{-3}	1.23 x 10^{-2}	9.50 x 10^{-2}	4.93 x 10^{-2}	9.07 x 10^{-2}	2.91 x 10^{-1}	4.93 x 10^{-2}	9.03 x 10^{-2}
u(gm/cm^2)	2.05 x 10^{-2}	2.05 x 10^{-2}	2.05 x 10^{-2}	2.05 x 10^{-2}	2.19 x 10^{-2}	4.50 x 10^{-2}	4.48 x 10^{-2}	8.85 x 10^{-2}	8.87 x 10^{-2}	8.67 x 10^{-2}	3.43 x 10^{-1}	3.41 x 10^{-1}
ν (cm^{-1})	ν'=3847 cm^{-1}	ν'=3847 cm^{-1}	ν'=3847 cm^{-1}	ν'=3847 cm^{-1}	ν'=3847 cm^{-1}	ν'=3847 cm^{-1}	ν'=3847 cm^{-1}	ν'=3847 cm^{-1}	ν'=3847 cm^{-1}	ν'=3847 cm^{-1}	ν'=3847 cm^{-1}	ν'=3847 cm^{-1}
3847.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
3847.5	0.046	0.079	0.135	0.298	0.018	0.032	0.112	0.136	0.200	0.360	0.334	0.414
3848.0	0.088	0.151	0.270	0.603	0.033	0.062	0.224	0.274	0.399	0.724	0.673	0.831
3848.5	0.148	0.235	0.444	0.946	0.055	0.112	0.385	0.453	0.637	1.124	1.046	1.270
3849.0	0.264	0.383	0.723	1.363	0.098	0.215	0.539	0.726	0.969	1.585	1.482	1.746
3849.5	0.460	0.630	1.119	1.839	0.169	0.379	0.799	1.092	1.392	2.077	1.966	2.238
3850.0	0.700	0.953	1.534	2.324	0.266	0.574	1.389	1.484	1.842	2.573	2.454	2.738
3850.5	0.822	1.171	1.861	2.795	0.310	0.675	1.686	1.769	2.243	3.067	2.930	3.238
3851.0	0.925	1.343	2.213	3.277	0.331	0.754	1.991	2.102	2.649	3.562	3.410	3.738
3851.5	1.124	1.604	2.657	3.771	0.376	0.898	2.392	2.510	3.118	4.060	3.904	4.238
3852.0	1.514	2.025	3.143	4.267	0.524	1.216	2.872	2.987	3.612	4.560	4.403	4.738
3852.5	1.910	2.488	3.633	4.764	0.694	1.588	3.363	3.473	4.110	5.060	4.903	5.238
3853.0	2.168	2.880	4.117	5.260	0.749	1.827	3.841	3.946	4.607	5.560	5.403	5.738
3853.5	2.498	3.284	4.607	5.756	0.834	2.073	4.323	4.420	5.104	6.060	5.903	6.238
3854.0	2.959	3.759	5.099	6.254	1.037	2.463	4.817	4.909	5.603	6.560	6.403	6.738
3854.5	3.423	4.244	5.592	6.751	1.358	2.929	5.312	5.399	6.101	7.060	6.903	7.238
3855.0	3.768	4.689	6.081	7.247	1.580	3.365	5.802	5.885	6.599	7.560	7.403	7.738
3855.5	3.960	5.007	6.535	7.743	1.651	3.590	6.238	6.329	7.082	8.060	7.901	8.238
3856.0	4.062	5.201	6.910	8.227	1.678	3.689	6.567	6.662	7.513	8.559	8.387	8.738
3856.5	4.180	5.382	7.239	8.705	1.703	3.766	6.854	6.948	7.933	9.054	8.859	9.238
3857.0	4.627	5.687	7.636	9.196	1.775	3.930	7.228	7.319	8.335	9.551	9.344	9.738
3857.5	4.744	6.083	8.104	9.689	1.884	4.189	7.676	7.764	8.815	10.048	9.838	10.237
3858.0	4.912	6.357	8.521	10.152	1.968	4.414	8.050	8.132	9.253	10.539	10.320	10.732
3858.5	5.001	6.508	8.810	10.555	2.008	4.507	8.272	8.354	9.535	10.996	10.752	11.208
3859.0	5.068	6.615	9.016	10.916	2.034	4.560	8.449	8.543	9.850	11.423	11.135	11.662
3859.5	5.181	6.770	9.247	11.283	2.082	4.663	8.680	8.785	10.165	11.869	11.549	12.133
3860.0	5.262	6.906	9.477	11.625	2.120	4.713	8.854	8.970	10.434	12.281	11.935	12.582

Table 4-4

Sam. No.		1	2	3	4	5	6	7	8	9	10	…
p(atm)		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
P_e(atm)		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
w(gm/cm²)		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ν (cm⁻¹)	λ (microns)	T x 100	T x 100	T x 100	T x 100	T x 100	T x 100	T x 100	T x 100	T x 100	T x 100	T x 100
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Table 4-5 $\int_{\nu'}^{\nu} A(\nu)\,d\nu$

Run No	1	2	3	4	5	6	7	8	9	10	11	12	13	14
p(atm)	5.26 × 10[illegible]	5.26 × 10[illegible]	5.26 × 10[illegible]	5.26 × 10[illegible]	8.42 × 10[illegible]	8.42 × 10[illegible]	8.42 × 10[illegible]	8.42 × 10[illegible]	8.42 × 10[illegible]	8.42 × 10[illegible]	8.42 × 10[illegible]	8.42 × 10[illegible]	8.42 × 10[illegible]	8.42 × 10[illegible]
P_e(atm)	2.63 × 10[illegible]	7.37 × 10[illegible]	2.97 × 10[illegible]	1.00 × 10[illegible]	4.21 × 10[illegible]	9.42 × 10[illegible]	2.97 × 10[illegible]	9.96 × 10[illegible]	4.21 × 10[illegible]	9.42 × 10[illegible]	2.57 × 10[illegible]	9.96 × 10[illegible]	4.21 × 10[illegible]	9.42 × 10[illegible]
w(gm/cm²)	6.6 × 10[illegible]	6.6 × 10[illegible]	6.6 × 10[illegible]	6.6 × 10[illegible]	2.60 × 10[illegible]	2.60 × 10[illegible]	2.60 × 10[illegible]	2.60 × 10[illegible]	7.72 × 10[illegible]	7.72 × 10[illegible]	7.72 × 10[illegible]	7.72 × 10[illegible]	2.05 × 10[illegible]	2.05 × 10[illegible]
ν (cm⁻¹)	ν'=3895 cm⁻¹	ν'=3895 cm⁻¹	ν'=3895 cm⁻¹	ν'=3895 cm⁻¹	ν'=3895 cm⁻¹	ν'=3895 cm⁻¹	ν'=3895 cm⁻¹	ν'=3895 cm⁻¹	ν'=3895 cm⁻¹	ν'=3895 cm⁻¹	ν'=3895 cm⁻¹	ν'=3895 cm⁻¹	ν'=3895 cm⁻¹	ν'=3895 cm⁻¹
3895.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
3895.5	0.001	0.012	0.011	0.019	0.011	0.013	0.025	0.043	0.024	0.037	0.068	0.111	0.046	0.076
3896.0	0.000	0.021	0.019	0.033	0.014	0.020	0.041	0.079	0.036	0.060	0.113	0.196	0.074	0.127
3896.5	0.000	0.030	0.027	0.048	0.021	0.031	0.063	0.118	0.061	0.091	0.134	[illegible]	0.120	0.191
3897.0	0.002	0.042	0.030	0.056	0.034	0.047	0.088	0.169	0.093	0.134	0.221	[illegible]	0.152	0.202
3897.5	0.007	0.057	0.053	0.091	0.051	0.079	0.129	0.254	0.133	[illegible]	0.305	0.620	0.164	0.362
3898.0	0.030	0.097	0.099	0.167	0.109	0.140	0.252	0.446	0.238	0.327	0.512	[illegible]	0.432	0.526
3898.5	0.064	0.160	0.190	0.244	0.182	0.259	0.426	0.687	0.363	0.612	0.815	[illegible]	0.630	0.881
3899.0	0.092	0.214	0.257	0.366	0.295	0.380	0.606	0.991	0.502	0.731	1.114	1.606	0.866	1.166
3899.5	0.186	0.379	0.402	0.456	0.461	0.647	0.961	1.423	0.803	1.106	1.339	2.207	1.219	1.973
3900.0	0.268	0.315	0.697	0.953	0.578	0.793	1.194	1.751	0.980	1.304	1.780	2.723	1.444	1.930
3900.5	0.233	0.341	0.769	1.061	0.594	0.821	1.265	1.916	1.019	1.386	2.043	3.044	1.546	2.117
3901.0	0.235	0.559	0.770	1.113	0.603	0.840	1.317	2.045	1.046	1.435	2.163	3.331	1.605	2.232
3901.5	0.308	0.582	0.811	1.192	0.642	0.910	1.459	2.289	1.127	1.539	2.431	3.711	1.747	2.407
3902.0	0.331	0.716	0.993	1.438	0.832	1.154	1.810	2.711	1.406	1.850	2.826	4.184	2.104	2.776
3902.5	0.440	0.877	1.235	1.763	1.008	1.375	2.114	3.111	1.675	2.197	3.232	4.652	2.441	3.208
3903.0	0.466	0.937	1.334	1.922	1.063	1.450	2.220	3.335	1.773	2.329	3.450	5.031	2.616	3.484
3903.5	0.471	0.955	1.367	1.997	1.078	1.483	2.311	3.536	1.613	2.435	3.633	5.390	2.705	3.667
3904.0	0.500	1.010	1.451	2.151	1.164	1.600	2.529	3.883	1.936	2.667	3.970	5.851	2.919	3.909
3904.5	0.607	1.193	1.702	2.485	1.342	1.847	2.882	4.317	2.213	2.967	4.403	6.332	3.276	4.323
3905.0	0.644	1.278	1.861	2.706	1.416	1.951	3.064	4.617	2.336	3.155	4.709	6.769	3.476	4.654
3905.5	0.668	1.323	1.979	2.815	1.469	2.031	3.209	4.865	2.433	3.303	4.980	7.182	3.658	4.911
3906.0	0.709	1.395	2.012	2.955	1.595	2.158	3.405	5.170	2.579	3.497	5.296	7.615	3.875	5.195
3906.5	0.751	1.474	2.133	3.119	1.651	2.273	3.595	5.426	2.725	3.701	5.572	7.981	4.075	5.496
3907.0	0.755	1.490	2.163	3.171	1.664	2.296	3.627	5.506	2.752	3.757	5.666	8.160	4.120	5.615
3907.5	0.755	1.498	2.176	3.181	1.665	2.299	3.651	5.547	2.761	3.775	5.702	8.251	4.139	5.664
3908.0	0.756	1.504	2.183	3.204	1.666	2.302	3.659	5.573	2.767	3.788	5.727	8.315	4.153	5.699
3908.5	0.756	1.509	2.191	3.215	1.667	2.305	3.665	5.595	2.776	3.801	5.749	8.367	4.169	5.732
3909.0	0.757	1.515	2.195	3.225	1.669	2.310	3.672	5.615	2.785	3.816	5.770	8.416	4.194	5.768
3909.5	0.758	1.521	2.206	3.235	1.671	2.316	3.679	5.636	2.797	3.832	5.791	8.456	4.216	5.800
3910.0	0.760	1.527	2.216	3.245	1.673	2.323	3.685	5.653	2.800	3.847	5.811	8.501	4.230	5.866
3910.5	0.763	1.536	2.225	3.255	1.680	2.333	3.695	5.673	2.830	3.874	5.841	8.547	4.282	5.936
3911.0	0.766	1.540	2.233	3.266	1.683	2.337	3.700	5.690	2.839	3.890	5.860	8.581	4.303	5.964
3911.5	0.765	1.545	2.241	3.272	1.686	2.341	3.736	5.703	2.843	3.902	5.875	8.611	4.317	5.972
3912.0	0.766	1.551	2.246	3.280	1.690	2.344	3.708	5.720	2.850	3.913	5.888	8.640	4.329	5.995
3912.5	0.769	1.557	2.256	3.287	1.696	2.350	3.715	5.740	2.862	3.929	5.936	8.680	4.353	6.028
3913.0	0.773	1.566	2.267	3.300	1.710	2.360	3.724	5.745	2.887	3.962	5.949	8.736	4.397	6.088
3913.5	0.776	1.576	2.276	3.310	1.718	2.367	3.739	5.786	[illegible]	3.987	5.975	8.780	4.430	6.153
3914.0	0.781	1.583	[illegible]	3.321	1.733	2.381	3.756	5.816	2.932	4.023	6.026	8.848	4.474	6.227
3914.5	0.785	1.593	[illegible]	3.333	1.763	2.392	3.774	5.842	2.952	4.054	6.073	8.910	4.511	6.277
3915.0	0.786	1.599	[illegible]	[illegible]	1.765	2.396	3.781	5.865	2.958	4.071	6.095	8.960	4.522	6.307
3915.5	0.789	1.605	[illegible]	[illegible]	1.767	2.399	3.789	[illegible]	2.966	4.205	6.122	9.039	4.555	6.336
3916.0	0.803	1.626	[illegible]	[illegible]	1.768	2.436	3.825	[illegible]	3.069	4.136	6.189	9.250	4.682	6.413
3916.5	0.840	1.696	2.416	3.506	1.863	2.545	3.979	[illegible]	3.167	4.387	6.666	9.529	4.863	6.637
3917.0	0.886	1.759	[illegible]	[illegible]	1.967	2.662	4.136	[illegible]	3.208	4.697	6.712	10.039	5.015	6.923
3917.5	[illegible]	1.663	[illegible]	[illegible]	2.103	2.829	4.375	6.868	3.509	4.736	7.068	10.447	5.299	7.255
3918.0	1.001	[illegible]	[illegible]	[illegible]	2.136	2.878	4.445	7.217	3.567	4.665	7.267	10.726	5.416	7.490
3918.5	1.006	[illegible]	[illegible]	[illegible]	2.159	2.885	4.517	7.267	3.590	4.870	7.336	10.832	5.461	7.518
3919.0	1.006	[illegible]	[illegible]	[illegible]	2.162	2.890	4.534	[illegible]	3.619	4.889	7.366	10.934	[illegible]	7.555
3919.5	1.061	[illegible]	[illegible]	[illegible]	2.168	2.961	4.565	[illegible]	3.628	4.617	7.484	11.174	5.494	7.618
3920.0	1.031	[illegible]	[illegible]	[illegible]	2.227	2.995	4.727	[illegible]	3.735	[illegible]	7.637	11.443	5.660	[illegible]
3920.5	1.077	[illegible]	[illegible]	[illegible]	2.312	3.099	4.850	[illegible]	3.875	[illegible]	7.925	11.863	5.855	[illegible]
3921.0	1.081	[illegible]	[illegible]	[illegible]	2.326	3.110	4.855	[illegible]	3.906	[illegible]	[illegible]	[illegible]	5.817	[illegible]
3921.5	1.086	[illegible]	[illegible]	[illegible]	2.331	3.123	4.877	[illegible]	3.923	[illegible]	[illegible]	12.125	5.836	[illegible]
3922.0	1.090	[illegible]	[illegible]	[illegible]	2.334	3.129	4.903	[illegible]	[illegible]	[illegible]	[illegible]	12.137	5.856	[illegible]
3922.5	1.091	[illegible]	[illegible]	[illegible]	2.336	3.133	[illegible]	[illegible]	[illegible]	[illegible]	9.161	12.234	5.961	[illegible]
3923.0	1.096	[illegible]	[illegible]	[illegible]	2.361	3.149	[illegible]	7.916	3.859	[illegible]	9.196	12.336	5.990	[illegible]
3923.5	1.100	[illegible]	[illegible]	[illegible]	2.377	3.196	[illegible]	[illegible]	4.019	[illegible]	[illegible]	12.586	[illegible]	[illegible]
3924.0	1.141	[illegible]	[illegible]	[illegible]	2.445	3.296	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12.881	[illegible]	[illegible]
3924.5	1.172	[illegible]	[illegible]	[illegible]	2.457	3.370	5.300	[illegible]	[illegible]	[illegible]	[illegible]	13.312	[illegible]	[illegible]
3925.0	1.301	[illegible]	[illegible]	[illegible]	2.551	3.450	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3925.5	1.300	[illegible]	[illegible]	[illegible]	2.657	3.551	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3926.0	1.301	[illegible]	[illegible]	[illegible]	2.684	3.644	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3926.5	1.306	[illegible]	[illegible]	[illegible]	2.761	3.636	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3927.0	1.306	[illegible]	[illegible]	[illegible]	2.793	3.663	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3927.5	1.300	[illegible]	[illegible]	[illegible]	2.706	3.669	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3928.0	1.306	[illegible]	[illegible]	[illegible]	[illegible]	3.696	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3928.5	1.301	[illegible]	[illegible]	[illegible]	2.743	3.715	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10.177
3929.0	1.313	[illegible]	[illegible]	[illegible]	2.759	3.767	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10.341
3929.5	1.366	[illegible]	[illegible]	[illegible]	2.821	3.831	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15.117	[illegible]	[illegible]
3930.0	1.362	[illegible]	[illegible]	[illegible]	[illegible]	3.996	[illegible]	[illegible]	[illegible]	[illegible]	10.283	[illegible]	[illegible]	[illegible]
3930.5	1.370	[illegible]	[illegible]	[illegible]	[illegible]	3.937	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3931.0	1.401	[illegible]	[illegible]	[illegible]	[illegible]	4.005	[illegible]	10.081	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3931.5	1.400	[illegible]	[illegible]	[illegible]	2.456	4.076	[illegible]	10.135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12.000
3932.0	1.611	[illegible]	[illegible]	[illegible]	2.900	4.200	[illegible]	10.201	[illegible]	7.000	[illegible]	[illegible]	[illegible]	11.190

Table 4-5 $\int_{\nu'}^{\nu} A(\nu)\,d\nu$ (cont'd)

Sam. No.	15	16	17	18	19	20	21
p(atm)	8.42×10^{-8}	8.42×10^{-3}	6.3×10^{-4}	2.6×10^{-3}	5.0×10^{-3}	9.87×10^{-3}	9.89×10^{-3}
P_e(atm)	2.97×10^{-1}	9.96×10^{-1}	1.16×10^{-3}	1.23×10^{-2}	9.50×10^{-2}	4.93×10^{-2}	9.07×10^{-2}
u(gm/cm²)	2.05×10^{-2}	2.05×10^{-2}	2.19×10^{-2}	4.50×10^{-2}	4.48×10^{-2}	8.85×10^{-2}	8.87×10^{-2}
ν (cm⁻¹)	ν'=3895 cm⁻¹	ν'=3895 cm⁻¹	ν'=3895 cm⁻¹	ν'=3895 cm⁻¹	ν'=3895 cm⁻¹	ν'=3895 cm⁻¹	ν'=3895 cm⁻¹
3895.0	0.	0.	0.	0.	0.	0.	0.
3895.5	0.144	0.249	0.019	0.028	0.086	0.104	0.150
3896.0	0.244	0.454	0.030	0.051	0.162	0.192	0.293
3896.5	0.349	0.667	0.056	0.136	0.291	0.333	0.476
3897.0	0.498	0.962	0.091	0.165	0.424	0.497	0.549
3897.5	0.674	1.306	0.120	0.235	0.614	0.677	0.949
3898.0	1.091	1.756	0.172	0.376	0.941	0.875	1.331
3898.5	1.415	2.239	0.239	0.564	1.321	1.367	1.772
3899.0	1.930	2.729	0.363	0.732	1.727	1.736	2.228
3899.5	2.315	3.223	0.457	1.074	2.193	2.192	2.712
3900.0	2.752	3.712	0.569	1.336	2.567	2.606	3.162
3900.5	[illegible]	4.173	0.588	1.367	2.796	2.868	3.511
3901.0	3.246	4.611	0.594	1.419	3.027	3.096	3.837
3901.5	3.664	5.086	0.648	1.633	3.377	3.435	4.252
3902.0	4.159	5.579	0.806	1.939	3.861	3.892	4.736
3902.5	4.596	6.073	0.961	2.243	4.276	4.366	5.216
3903.0	4.944	[illegible]	1.029	2.365	4.571	4.675	5.529
3903.5	5.284	[illegible]	1.057	2.456	4.871	4.963	6.137
3904.0	5.726	[illegible]	1.096	2.647	[illegible]	5.365	6.656
3904.5	6.203	[illegible]	1.234	2.962	5.736	5.802	6.951
3905.0	6.626	[illegible]	1.356	3.170	[illegible]	6.205	7.422
3905.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.570	[illegible]
3906.0	7.453	[illegible]	[illegible]	[illegible]	[illegible]	6.953	[illegible]
3906.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.323	[illegible]
3907.0	[illegible]	10.261	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3907.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3908.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3908.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3909.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3909.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3910.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3910.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3911.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3911.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3912.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3912.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3913.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3913.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3914.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3914.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3915.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3915.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3916.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3916.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3917.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3917.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3918.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3918.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3919.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3919.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3920.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3920.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3921.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3921.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3922.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3922.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3923.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3923.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3924.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3924.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3925.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3925.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3926.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3926.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3927.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3927.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3928.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3928.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3929.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3929.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3930.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3930.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3931.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3931.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3932.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Sam. No.	22	23	24	25	26	27	28	29
p(atm)	9.67×10^{-1}	9.67×10^{-8}	9.87×10^{-3}	9.83×10^{-3}	9.83×10^{-3}	9.49×10^{-3}	[illegible]	2.01×10^{-2}
P_e(atm)	2.91×10^{-1}	9.89×10^{-1}	4.93×10^{-2}	9.03×10^{-2}	2.92×10^{-1}	4.95×10^{-2}	1.006×10^{-1}	2.08×10^{0}
u(gm/cm²)	[illegible]	8.67×10^{-2}	[illegible]	3.41×10^{-1}	3.41×10^{-1}	6.86×10^{-1}	6.99×10^{-1}	6.97×10^{-1}
ν (cm⁻¹)	ν'=3895 cm⁻¹	ν'=3895 cm⁻¹	ν'=3895 cm⁻¹	ν'=3895 cm⁻¹	ν'=3895 cm⁻¹	ν'=3895 cm⁻¹	ν'=3895 cm⁻¹	ν'=3895 cm⁻¹
3895.0	0.	0.	0.	0.	0.	0.	0.	0.
3895.5	0.289	0.456	0.254	0.314	0.475	0.376	0.462	0.500
3896.0	0.569	[illegible]	0.692	0.655	[illegible]	0.725	[illegible]	1.000
3896.5	0.869	1.367	0.764	[illegible]	1.417	1.116	1.388	1.500
3897.0	1.221	[illegible]	1.112	1.430	1.906	1.533	1.872	2.000
3897.5	1.610	2.334	1.446	1.951	2.394	1.946	2.362	2.500
3898.0	2.079	2.837	1.911	2.342	2.895	2.460	[illegible]	3.000
3898.5	2.570	3.336	2.396	2.837	3.345	2.959	3.358	3.500
3899.0	3.067	3.636	2.882	3.336	3.836	3.455	3.858	4.000
3899.5	3.565	4.336	3.376	3.832	4.333	3.953	4.358	4.500
3900.0	4.059	4.836	3.867	4.324	4.891	4.452	4.858	5.000
3900.5	4.538	5.336	4.312	4.819	[illegible]	4.942	5.358	5.500
3901.0	5.011	5.836	4.753	5.336	[illegible]	5.432	5.858	6.000
3901.5	5.500	6.336	5.223	5.821	6.384	[illegible]	[illegible]	6.500
3902.0	5.995	6.836	5.722	6.239	6.888	6.424	[illegible]	7.000
3902.5	6.493	7.336	6.216	6.736	7.344	6.922	7.354	7.500
3903.0	6.987	7.836	6.693	7.232	[illegible]	[illegible]	[illegible]	8.000
3903.5	7.479	8.336	7.135	7.747	8.344	7.916	[illegible]	8.500
3904.0	7.975	8.836	7.656	8.244	8.844	8.412	[illegible]	9.000
3904.5	8.474	9.336	8.149	8.741	9.342	[illegible]	[illegible]	9.500
3905.0	[illegible]	9.836	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3905.5	[illegible]	10.336	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10.500
3906.0	[illegible]	10.836	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3906.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3907.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3907.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12.500
3908.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3908.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3909.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3909.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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3917.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3918.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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3924.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3925.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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3926.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3927.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3927.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3928.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3928.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3929.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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3930.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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3932.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

4.3 CURVES OF GROWTH OF THE 3847-3860 cm^{-1} REGION

Figure 4-7 shows a plot of $\int A(\nu)d\nu$ versus uP_e for the 3847-3860 cm^{-1} region. Each curve is drawn through a set of points which represent samples having approximately the same P_e. The parameter uP_e is convenient to use for samples in which most of the absorption lines satisfy the conditions for the well-known strong-line approximation. This occurs when the widely used quantity $Su/2\pi\alpha \gg 1$ for each line. The sample is then opaque within a few half-widths of each line center, and the only change in absorption with increasing u or P_e occurs in the wings of the lines where the absorption is a function of the parameter uP_e.

If all the lines within the interval satisfied the strong-line condition in every sample, all the curves in Fig. 4-7 would be coincident. The curves are seen to not be coincident; instead, they occur in the order of increasing P_e from top to bottom. This systematic deviation from the single curve results from several weak lines which do not satisfy the strong-line conditions and their contribution is more strongly dependent on u than on P_e.

The curves asymptotically approach a maximum value of 13 cm^{-1}, corresponding to complete absorption $[A(\nu) = 1]$ over the entire interval. Most of the transmission through a sample in which $\int A(\nu)d\nu$ is only slightly less than 13 cm^{-1} occurs at wavenumbers in the wings of the lines; thus, the absorptance is nearly a function of uP_e, and there is only a small deviation from the strong-line approximation.

The integrated absorptance of a single strong line with the Lorentz shape is proportional to $(uP_e)^{0.5}$. If all the lines in an interval were strong and there were no overlapping, the integrated absorptance of the interval would also have this proportional relationship, and "curves of growth" such as those in Fig. 4-7 would be coincident and have a slope of 0.5. The slopes of all the curves in the figure are seen to be less than 0.5, a result which undoubtedly is due to overalpping, even at low pressures.

Although the curves are not coincident, they are sufficiently close that it is possible to interpolate between them to determine $\int A(\nu)d\nu$ for a wide variety of samples with pressures different from those shown. Care must be exercised in extrapolating the curves to smaller uP_e, since they will diverge more rapidly, and the slopes will increase to a maximum of one as $Su/2\pi\alpha$ decreases.

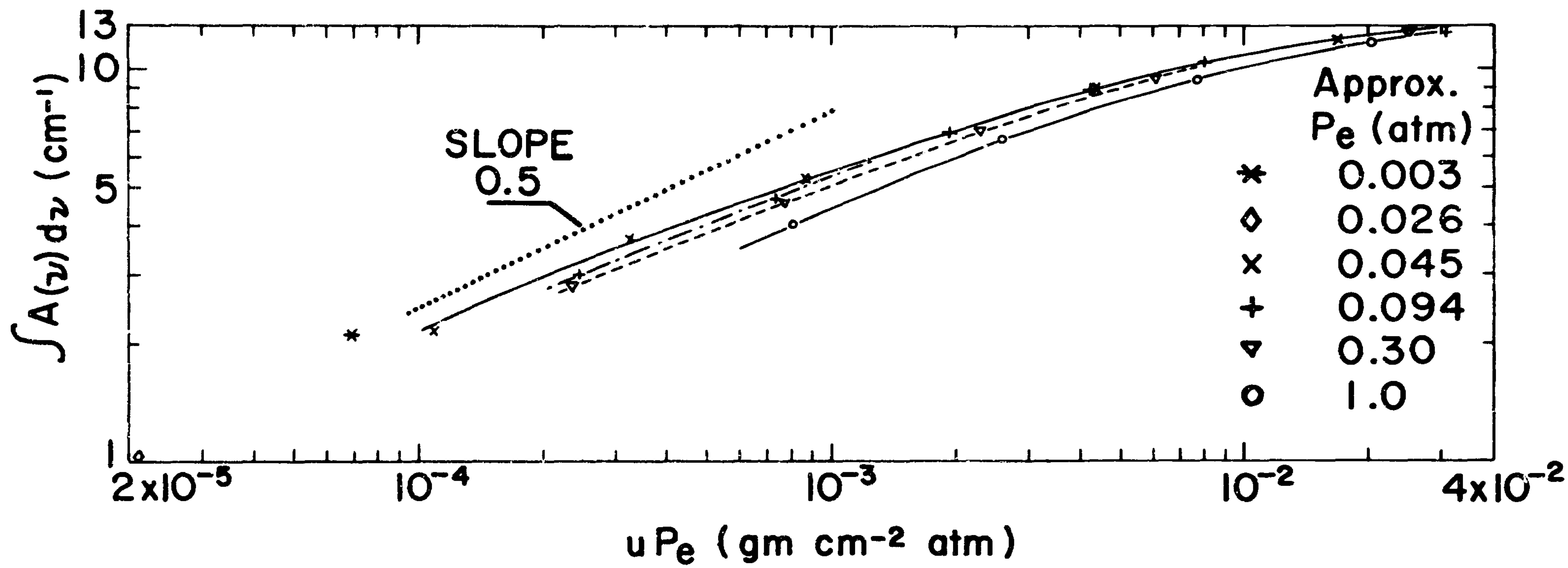


FIG. 4-7 $\int A(\nu)d\nu$ VERSUS uP_e FOR THE 3847-3860 cm^{-1} REGION.

Each curve corresponds to the approximate equivalent pressure indicated. No curves are drawn through the points representing samples at 0.003 and 0.026 atm. The dotted curve with a slope of 0.5 is drawn for comparison.

SECTION 5

SAMPLES FOR LINE STRENGTH DETERMINATION

5.1 LINE STRENGTH AND DISCUSSION

The strength of a single absorption line is given by

$$S = \int_{o}^{\infty} k(\nu)d\nu. \tag{5-1}$$

The absorption coefficient $k(\nu)$ is related to the true transmittance $T'(\nu)$ that would be observed with infinite resolution by

$$T'(\nu) = \exp\left[-uk(\nu)\right], \text{ or } -\ln T'(\nu) = uk(\nu). \tag{5-2}$$

By combining these two equations we can relate the line strength to $T'(\nu)$ by

$$S = \frac{1}{u} \int_{o}^{\infty} -\ln T'(\nu)d\nu. \tag{5-3}$$

As P_e is increased until α is as large or larger than the spectral slitwidth of the spectrometer, the observed transmittance $T(\nu)$ becomes approximately equal to the true transmittance $T'(\nu)$. Under this condition we see that the line strength can be determined from the observable quantity $T(\nu)$ by

$$S = \frac{1}{u} \int_{o}^{\infty} -\ln T(\nu)d\nu. \tag{5-3a}$$

If $A'(\nu) \equiv 1 - T'(\nu) \ll 1$ for all values of ν being considered, Equation (5-3) can be rewritten as

$$S = \frac{1}{u} \int_0^\infty A'(\nu)d\nu. \tag{5-4}$$

It has been shown both theoretically[14] and experimentally[2] that, under usual spectroscopic conditions,

$$\int A(\nu)d\nu = \int A'(\nu)d\nu, \tag{5-5}$$

provided the integration is carried out over all wavenumbers where there is significant absorption. $A'(\nu)$ and $A(\nu)$ are the true and observed absorptances, respectively. By combining Equations (5-4) and (5-5), we see that the line strength can be determined from $A(\nu)$ by

$$S = \frac{1}{u} \int_0^\infty A(\nu)d\nu. \tag{5-4a}$$

At points where several lines contribute to the absorption, the total absorption coefficient is the sum of the coefficients of each of the individual lines. When the conditions for the validity of Equations (5-3a) or (5-4a) are fulfilled, they can also be used to determine the strengths of entire bands by changing the limits of integration.

When the conditions for (5-4a) are satisfied, the absorption is in the so-called linear region. This equation is frequently used to determine the strengths of bands or individual lines; however, we see that it can only be used when $A'(\nu)$ is small. Thus, the accuracy of the measurement is usually limited by the uncertainty in the measurement of the small $A(\nu)$; small errors in the placement of the zero absorptance curve can cause large errors in the values of the strengths which are determined.

When the widths of the lines are sufficiently great that $T'(\nu) \cong T(\nu)$ and Equation (5-3a) is valid, strengths can be determined from spectra in which the absorptance is considerably larger, thus improving the accuracy. Of course, samples in which $T(\nu)$ may be too small must be avoided since $-\ln T(\nu)$ gets large, and small errors in the spectra can cause large errors in the determination of the strengths. Errors arising from the small difference between $T(\nu)$ and $T'(\nu)$ also increase as $T(\nu)$ approaches zero.

The spectra discussed correspond to samples at two different equivalent pressures, approximately 5 and 10 atm, which were used in order to satisfy the conditions for the validity of Equation (5-3a). Thus, the strength of many of the lines can be determined. The samples chosen for a given spectral region provide sufficient absorption that many of the weaker lines can be

observed, yet the absorption is not sufficient for the stronger to be opaque near the centers. Because of the great range in the strengths of the lines within a given region, it would be desirable to have spectra of several different samples covering a wide range of u. But the results here have been limited to one or two samples in a given spectral region because of the large amount of time and effort involved in obtaining and reducing the data. The parameters of the samples discussed in this section are presented in Table 5-1.

The lines in the samples at approximately 10 atm are sufficiently wide that Equation (5-3a) is probably valid for $T(\nu)$ greater than about 0.2 or 0.3. But the lines in the samples at 5 atm are only half as wide, and Equation (5-3a) is probably only valid for $T(\nu)$ greater than approximately 0.7. However, the spectra of the 5 atm samples have the advantage of less overlapping so that many of the weaker lines can still be observed and their strengths estimated. The 10 atm spectra are useful in determining strengths of the stronger lines or of groups of lines; then the 5 atm spectra can be used to determine the contribution of the different lines within the group. It is probable that even 5 atm is too high a pressure for some of the weaker lines adjacent to strong lines; strengths of these lines can be determined more accurately from results at 1 atm which are presented in Section 6.

In the determination of line strengths, it should be borne in mind that much of the structure in the spectra which appears to be composed of a single line actually consists of two or more individual lines which have not been resolved. The positions and approximate strengths of the lines can be obtained from Gates et al.[1]

The results are presented in four different groups, each corresponding to a different spectral region with a small amount of overlapping of the four regions. Photographs of the original spectra are shown with the sample number indicated. Following the spectra for each region are tables of transmittance and integrated absorptance which are similar to those presented in Section 4.

Also shown is a table of the quantity $\frac{1}{u} \int_{\nu'}^{\nu} -\ln T(\nu)d\nu$. We see from Equation (5-2) that this quantity is equivalent to an integrated absorption coefficient $\int K(\nu)d\nu$, where $K(\nu)$ is the sum of the absorption coefficients of all the lines. The lower limit of integration ν' is indicated at the top of the column, and the values are tabulated at intervals of 0.5 cm^{-1}. It is apparent from Equation (5-3a), that the strength of individual lines or groups of lines can be determined from this table by taking the difference between the tabulated values of the integral at the points corresponding to the limits of the region involved.

Since $-\ln T(\nu) \rightarrow \infty$ as $T(\nu) \rightarrow 0$, we wrote the computer program so that values of $-\ln T(\nu) > 10$ are never used in the calculation of the integral. The correct value is used as the integrand if $-\ln T(\nu) \leq 10$; but 10 is used for $-\ln T(\nu) > 10$ ($T(\nu) < 0.0005$). Since $T(\nu) = 0.001$ is the smallest value tabulated, the upper limit of 10 is only applicable at points where $T(\nu)$ is tabulated as 0.000. As pointed out above, a small error in $T(\nu)$ causes a large error in $-\ln T(\nu)$ when $T(\nu)$ is small. Therefore, regions where $T(\nu)$ is small should be avoided when dealing with the tables of $\frac{1}{u} \int -\ln T(\nu)d\nu$. Thus, the limiting of $-\ln T(\nu)$ to values less than or equal to 10 does not effect the usefulness of the table since the places where $-\ln T(\nu)$ is large should not be used anyway. Values were calculated through a few such regions in order to make the table continuous; but it should be emphasized that the tables should not be used over regions where $T(\nu)$ is small.

The greatest source of error in the spectra and tables probably arises from the misplacement of the zero absorptance curve. This is particularly true for the spectral region considered here since the band absorbs over such a wide region. The accuracy depends to a large extent on the distance from a "tie point" where the absorptance is known to be zero, or so small as to be negligible. The error in $A(\nu)$ due to misplacement of the background is probably less than 0.01 at most wavenumbers; although it may be somewhat higher below 3300 cm^{-1}, where the recorder deflection was small and the nearest tie point was a few hundred cm^{-1} away.

5.2 BAND STRENGTHS

Without determining the strengths of the individual absorption lines, we can obtain quite a lot of information about the strengths of the bands in this region from the tables of $\frac{1}{u} \int -\ln T(\nu)d\nu$. The ν_1 and ν_3 bands overlap so much that the contributions of each cannot be determined without considering the absorption by individual lines within each of the bands. We will not do this, but we will determine the combined strengths of the two bands.

Since nearly all the absorption below 3385 cm^{-1} is due to the $2\nu_2$ band, we will consider only the region from 3385 to 4130 cm^{-1}. Values of $\frac{1}{u} \int -\ln T(\nu)d\nu$ were taken from Sample 31 for the 3385-3455 cm^{-1} region, Sample 32 for 3455-3555 cm^{-1}, Sample 34 for 3555-3960 cm^{-1}, and Sample 36 for 3960-4130 cm^{-1}. By summing all the values, we obtained 27.4×10^4 cm^{-1} gm^{-1} cm^2. Approximately 99% of this occurs in the 3555-3960 cm^{-1} interval for which Sample 34 was used. We see from the spectrum of this sample that there are places where $T(\nu)$ is as small as approximately 0.10. As

pointed out above, when $T(\nu)$ is this small, $\int -\ln T(\nu)$ will be slightly less than $\int -\ln T'(\nu)$ when the widths of the lines are not several times as great as the spectrometer slitwidth. Thus, we must consider the error which might be introduced, since the half-width of the lines is probably about 1 cm^{-1} and the spectral slitwidth is approximately 0.7 cm^{-1}.

We can get some idea of the error by comparing the values obtained from Samples 33 and 34; both of these samples have the same value of u, and their equivalent pressures are 5 and 10 atm, respectively. We see that $\frac{1}{u} \int -\ln T(\nu)d\nu$ increased by about 7 percent (2.48×10^4 to 2.65×10^4) when the pressure was doubled; most of this increase is probably due to a decrease in the systematic error described in the previous paragraph. Since the value increased by only 7 percent in going from 5 to 10 atm, it is probable that not more than 1 or 2 percent increase would be observed if the pressure were increased further until the structure were smoothed out.

Thus, if we assume a 2 percent increase, we obtain 28×10^4 cm^{-1} gm^{-1} cm^2 for the combined strengths of the ν_1 and ν_3 bands. The estimated uncertainty is $\pm 1.5 \times 10^4$ cm^{-1} gm^{-1} cm^2. Gates et al[1] used strengths of 2.7×10^4 for ν_1 and 26.3×10^4 for ν_3 in their calculations of line strengths. Their total, 29.0×10^4, is in good agreement with our results. The value for ν_3 used by Gates et al is based on a measurement of a single line by Jaffe and Benedict.[15]

From the results between 2990 and 3385 cm^{-1}, we determined a strength of $3.5 \pm 0.7 \times 10^3$ cm^{-1} gm^{-1} cm^2 for the $2\nu_2$ band. The relatively large uncertainty is due to the overlapping of the wings of the ν_1 and ν_3 bands and to the possible misplacement of the zero absorptance curve. Our value is considerably larger than 2.2×10^3, which was used by Gates et al.

5.3 RESULTS

TABLE 5-1

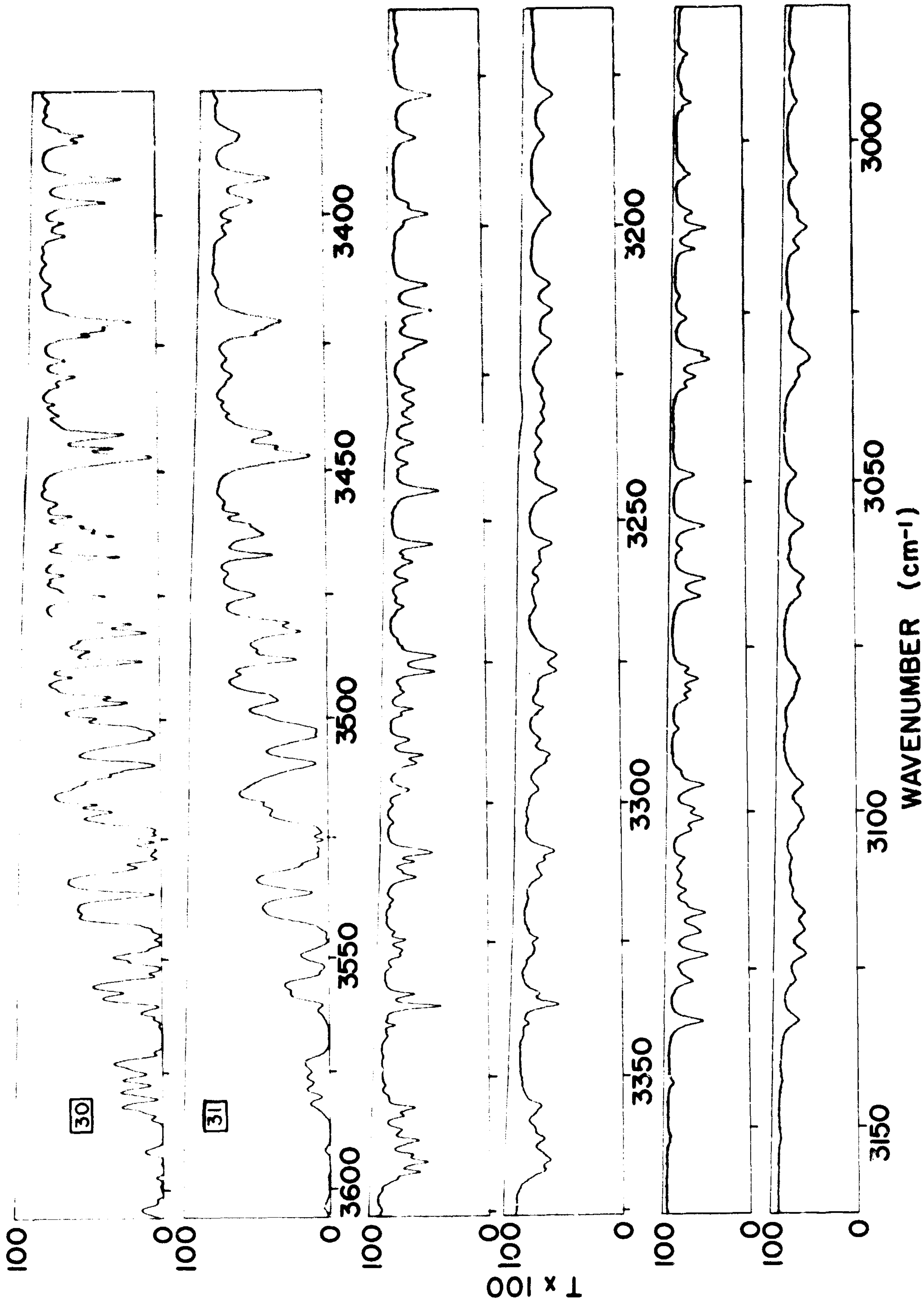
SAMPLE PARAMETERS

Sam. No.	p torr	P torr	P_e^* torr	p atm	P atm	P_e^* atm	L Path m	u gm/cm^2
30	6.4	3800	3825	0.00842	5.00	5.03	32.9	C.0205
31	6.4	7600	7625	0.00842	10.00	10.03	32.9	0.0205
32	6.3	7600	7625	0.00829	10.00	10.03	4.16	0.00256
33	4.0	3800	3816	0.00526	5.00	5.02	2.10	0.00080
34	4.0	7600	7616	0.00526	10.00	10.02	2.10	0.00080
35	6.4	3800	3825	0.00842	5.00	5.03	32.9	0.0205
36	6.4	7600	7625	0.00842	10.00	10.03	32.9	0.0205

$^*P_e = P + 4p$ in accordance with Equation (3-8) and the results of Section 3. All samples were at room temperature, 296°K.

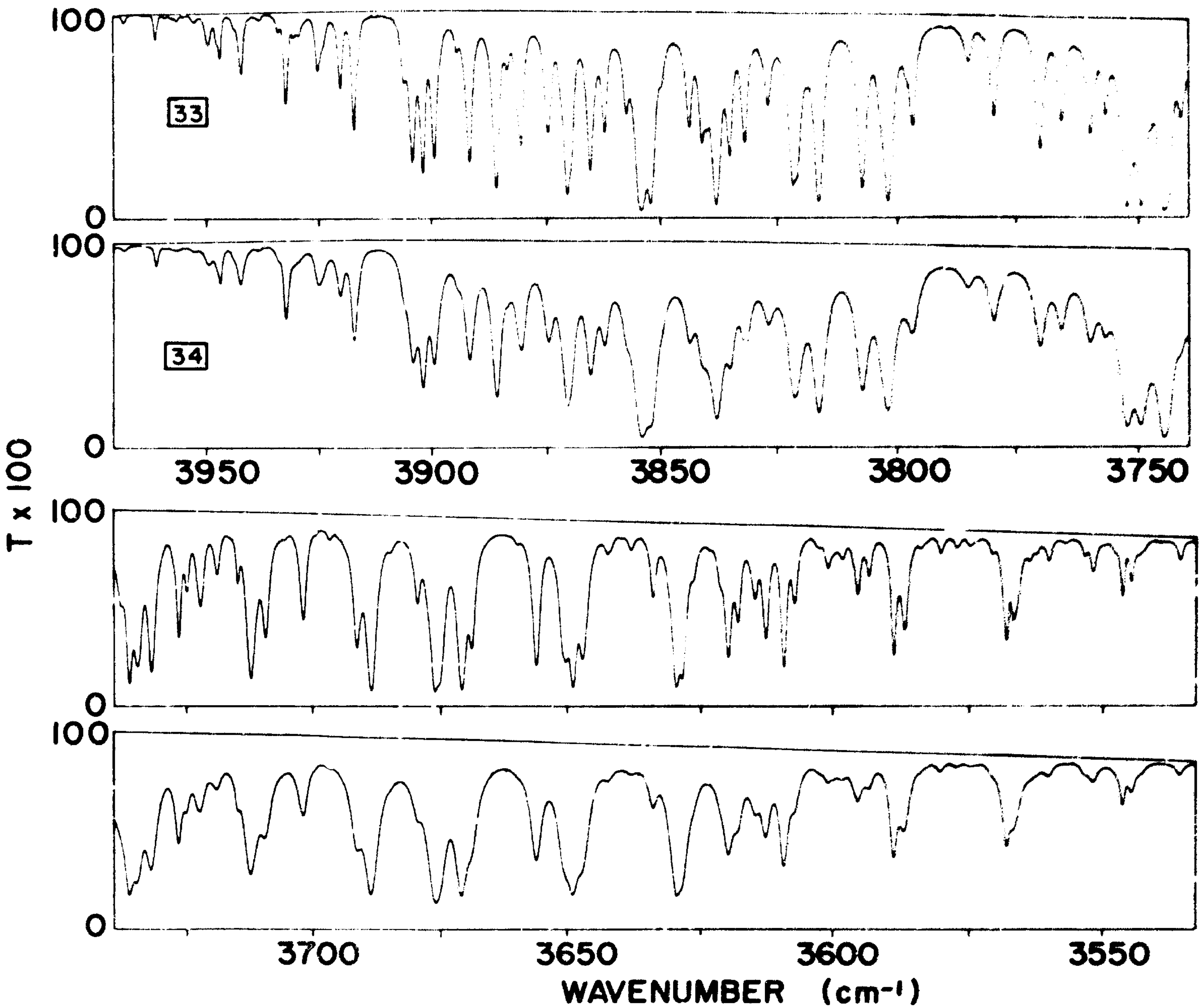
The regions covered by each sample are as follows:

30 and 31, 2990 - 3580 cm^{-1}
32, 3430 - 3635 cm^{-1}
33 and 34, 3540 - 3960 cm^{-1}
35 and 36, 3935 - 4130 cm^{-1}.



30
31
100
0
T x 100
3600
3550
3500
3450
3400
3350
3300
3250
3200
3150
3100
3050
3000
WAVENUMBER (cm-1)

Fig.5-1



100
0
33
34
T x 100
3950
3900
3850
3800
3750
3700
3650
3600
3550
WAVENUMBER (cm⁻¹)

Fig. 5-3

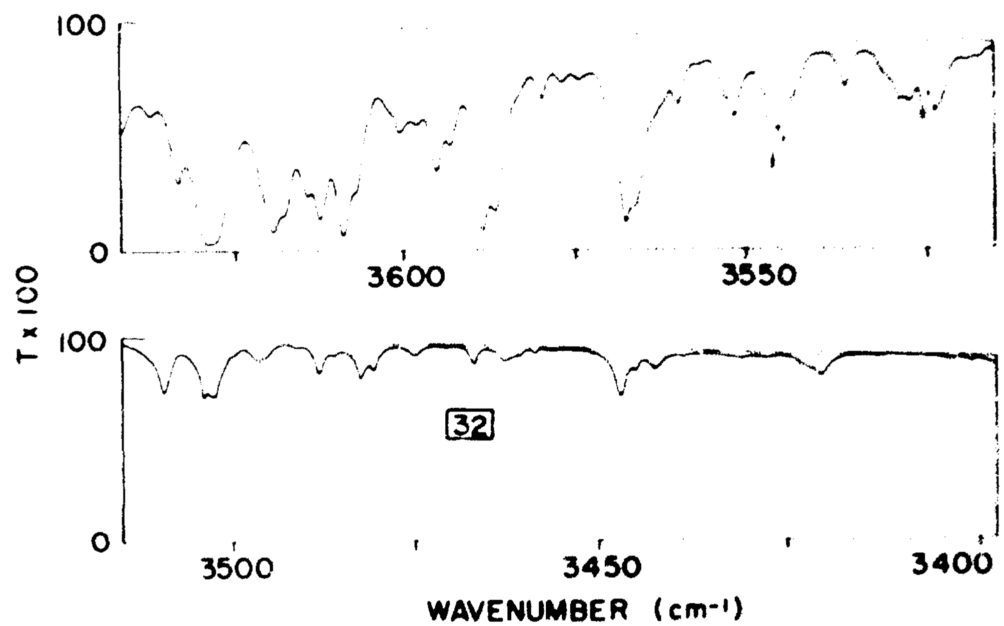


Fig. 5-2

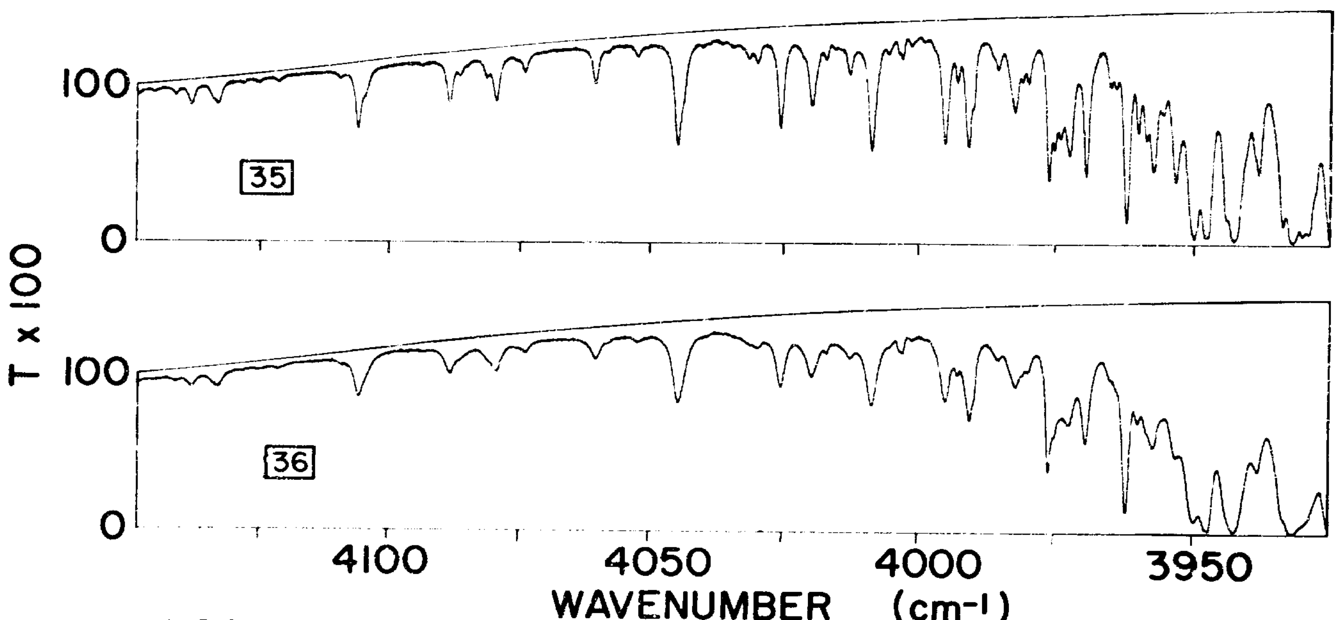


Fig. 5-4

Table 5-2

Case No		30	31
p(atm)		$8.42 \times 10^{[illegible]}$	$8.42 \times 10^{[illegible]}$
P_e(atm)		5.01×10^{0}	1.001×10^{1}
w(gm/cm²)		2.05×10^{-2}	2.05×10^{-2}
ν (cm⁻¹)	λ (micron)	T × 100	T × 100
2990.0	3.34448	93.9	92.0
2990.2	3.34426	92.8	92.6
2990.4	3.34403	93.8	91.3
2990.6	3.34381	94.7	92.1
2990.8	3.34359	94.7	92.9
2991.0	3.34336	94.3	93.3
2991.2	3.34314	92.7	92.9
2991.4	3.34292	92.6	91.2
2991.6	3.34269	91.9	90.9
2991.8	3.34247	89.8	90.6
2992.0	3.34225	89.3	89.9
2992.2	3.34202	89.5	89.4
2992.4	3.34180	88.6	89.4
2992.6	3.34158	88.6	88.7
2992.8	3.34135	89.3	89.0
2993.0	3.34113	90.1	88.6
2993.2	3.34091	90.3	87.7
2993.4	3.34068	88.4	86.7
2993.6	3.34046	87.4	85.8
2993.8	3.34024	85.0	85.3
2994.0	3.34001	82.7	83.0
2994.2	3.33979	78.8	82.1
2994.4	3.33957	74.6	82.2
2994.6	3.33934	79.6	83.6
2994.8	3.33912	85.3	86.3
2995.0	3.33890	88.3	87.0
2995.2	3.33868	87.6	87.4
2995.4	3.33845	86.1	88.9
2995.6	3.33823	87.7	89.2
2995.8	3.33801	91.3	91.2
2996.0	3.33778	93.4	92.9
2996.2	3.33756	94.0	93.1
2996.4	3.33734	94.6	94.0
2996.6	3.33712	95.1	94.3
2996.8	3.33689	94.9	94.5
2997.0	3.33667	96.5	94.4
2997.2	3.33645	95.2	94.2
2997.4	3.33622	95.6	95.0
2997.6	3.33600	95.1	93.8
2997.8	3.33578	95.7	93.6
2998.0	3.33556	96.0	93.9
2998.2	3.33533	95.5	93.9
2998.4	3.33511	95.4	93.9
2998.6	3.33489	95.3	94.3
2998.8	3.33467	95.4	94.7
2999.0	3.33444	94.5	94.3
2999.2	3.33422	94.9	94.1
2999.4	3.33400	95.9	94.0
2999.6	3.33378	96.1	93.8
2999.8	3.33355	96.0	94.0
3000.0	3.33333	94.8	94.2
3000.2	3.33311	95.1	94.6
3000.4	3.33289	94.6	94.6
3000.6	3.33267	94.8	94.1
3000.8	3.33244	95.1	93.5
3001.0	3.33222	93.8	92.9
3001.2	3.33200	94.8	92.6
3001.4	3.33178	94.1	91.9
3001.6	3.33156	95.3	93.6
3001.8	3.33133	94.7	92.5
3002.0	3.33111	94.3	91.8
3002.2	3.33089	94.0	92.2
3002.4	3.33067	93.9	91.5
3002.6	3.33045	93.4	92.4
3002.8	3.33023	92.3	91.6
3003.0	3.33000	91.1	90.6
3003.2	3.32978	89.4	89.2
3003.4	3.32956	87.2	87.3
3003.6	3.32934	85.5	87.0
3003.8	3.32912	81.8	85.5
3004.0	3.32889	83.6	84.3
3004.2	3.32867	83.5	83.0
3004.4	3.32845	78.8	81.9
3004.6	3.32823	75.4	81.4
3004.8	3.32801	76.5	82.2
3005.0	3.32779	82.4	83.7
3005.2	3.32757	86.7	85.8
3005.4	3.32734	85.3	85.7
3005.6	3.32712	88.7	87.8
3005.8	3.32690	91.8	89.0
3006.0	3.32668	93.4	91.6
3006.2	3.32646	92.8	92.0
3006.4	3.32624	93.1	91.8
3006.6	3.32602	94.1	91.5
3006.8	3.32579	93.6	91.4
3007.0	3.32557	95.6	91.6
3007.2	3.32535	95.1	91.8
3007.4	3.32513	94.7	91.9
3007.6	3.32491	94.5	91.5
3007.8	3.32469	94.2	91.1
3008.0	3.32447	94.2	91.7
3008.2	3.32425	94.1	91.3
3008.4	3.32403	93.9	91.5
3008.6	3.32381	93.8	90.5
3008.8	3.32358	92.3	90.2
3009.0	3.32336	92.2	89.3
3009.2	3.32314	88.8	87.2
3009.4	3.32292	86.8	85.3
3009.6	3.32270	84.1	83.8
3009.8	3.32248	79.8	82.4
3010.0	3.32226	78.8	80.3
3010.2	3.32204	72.7	78.7
3010.4	3.32182	71.2	78.9
3010.6	3.32160	76.1	78.6
3010.8	3.32138	79.8	78.5
3011.0	3.32116	82.1	79.0
3011.2	3.32094	81.1	78.1
3011.4	3.32071	82.1	78.7
3011.6	3.32049	80.6	76.4
3011.8	3.32027	77.0	75.0
3012.0	3.32005	71.2	70.0
3012.2	3.31983	62.8	67.6
3012.4	3.31961	54.3	65.1
3012.6	3.31939	53.1	66.0
3012.8	3.31917	62.1	68.0
3013.0	3.31895	69.0	71.9
3013.2	3.31873	75.2	74.5
3013.4	3.31851	76.9	76.5
3013.6	3.31829	78.4	77.8
3013.8	3.31807	82.2	79.3

Case No		30	31
p(atm)		$8.42 \times 10^{[illegible]}$	$8.42 \times 10^{[illegible]}$
P_e(atm)		5.01×10^{0}	1.001×10^{1}
w(gm/cm²)		2.05×10^{-2}	2.05×10^{-2}
ν (cm⁻¹)	λ (micron)	T × 100	T × 100
3014.0	3.31785	85.6	82.3
3014.2	3.31763	87.6	84.2
3014.4	3.31741	87.8	85.2
3014.6	3.31719	88.5	84.3
3014.8	3.31697	87.4	82.7
3015.0	3.31675	83.6	80.8
3015.2	3.31653	76.0	77.4
3015.4	3.31631	69.7	74.1
3015.6	3.31609	67.5	76.8
3015.8	3.31587	74.6	78.7
3016.0	3.31565	82.7	82.7
3016.2	3.31543	87.2	84.3
3016.4	3.31521	89.1	87.1
3016.6	3.31499	91.5	86.9
3016.8	3.31477	92.5	89.8
3017.0	3.31455	91.9	90.6
3017.2	3.31433	93.1	91.2
3017.4	3.31411	92.4	90.8
3017.6	3.31389	93.9	91.2
3017.8	3.31367	94.2	91.5
3018.0	3.31345	94.6	91.3
3018.2	3.31323	94.5	92.5
3018.4	3.31301	94.4	92.9
3018.6	3.31279	95.2	93.1
3018.8	3.31257	94.0	92.8
3019.0	3.31236	94.0	92.6
3019.2	3.31214	94.8	93.2
3019.4	3.31192	94.6	93.5
3019.6	3.31170	94.9	92.4
3019.8	3.31148	94.4	93.6
3020.0	3.31126	94.5	93.6
3020.2	3.31104	95.2	93.1
3020.4	3.31082	94.3	93.7
3020.6	3.31060	95.2	94.1
3020.8	3.31038	94.1	93.0
3021.0	3.31016	94.1	92.5
3021.2	3.30994	94.4	91.8
3021.4	3.30972	93.8	91.1
3021.6	3.30950	93.5	91.2
3021.8	3.30929	91.5	91.2
3022.0	3.30907	90.1	89.7
3022.2	3.30885	88.8	89.2
3022.4	3.30863	89.0	88.9
3022.6	3.30841	88.5	90.8
3022.8	3.30819	89.0	89.7
3023.0	3.30797	90.1	89.4
3023.2	3.30775	91.6	89.0
3023.4	3.30753	92.5	89.0
3023.6	3.30732	93.2	89.6
3023.8	3.30710	93.5	90.4
3024.0	3.30688	92.4	90.5
3024.2	3.30666	91.8	89.9
3024.4	3.30644	91.4	88.7
3024.6	3.30622	91.0	87.2
3024.8	3.30600	90.4	87.3
3025.0	3.30579	88.1	86.3
3025.2	3.30557	85.6	85.4
3025.4	3.30535	82.0	85.2
3025.6	3.30513	79.3	85.3
3025.8	3.30491	78.3	84.8
3026.0	3.30469	80.0	85.0
3026.2	3.30447	82.1	85.5
3026.4	3.30426	86.3	85.8
3026.6	3.30404	87.4	87.3
3026.8	3.30382	89.7	87.1
3027.0	3.30360	91.3	87.6
3027.2	3.30338	91.0	88.3
3027.4	3.30316	92.9	88.6
3027.6	3.30295	92.5	86.7
3027.8	3.30273	93.5	87.1
3028.0	3.30251	92.1	87.0
3028.2	3.30229	92.5	87.1
3028.4	3.30207	92.3	87.5
3028.6	3.30186	91.5	87.1
3028.8	3.30164	91.3	86.4
3029.0	3.30142	89.4	85.1
3029.2	3.30120	89.2	83.8
3029.4	3.30099	87.9	82.1
3029.6	3.30077	86.2	80.1
3029.8	3.30055	83.9	77.3
3030.0	3.30033	79.5	77.0
3030.2	3.30011	74.2	72.9
3030.4	3.29989	66.9	69.1
3030.6	3.29968	60.2	66.2
3030.8	3.29946	55.9	63.7
3031.0	3.29924	56.7	62.5
3031.2	3.29902	57.3	60.7
3031.4	3.29881	57.8	59.7
3031.6	3.29859	62.3	60.4
3031.8	3.29837	67.4	61.3
3032.0	3.29815	53.5	63.5
3032.2	3.29794	62.2	66.7
3032.4	3.29772	70.6	68.9
3032.6	3.29750	76.0	72.4
3032.8	3.29728	79.6	75.6
3033.0	3.29707	81.5	77.1
3033.2	3.29685	80.8	78.4
3033.4	3.29663	81.7	77.0
3033.6	3.29641	79.2	76.9
3033.8	3.29620	75.0	76.1
3034.0	3.29598	69.7	75.3
3034.2	3.29576	66.6	75.7
3034.4	3.29554	67.4	75.2
3034.6	3.29533	70.9	76.1
3034.8	3.29511	76.0	77.5
3035.0	3.29489	74.9	78.8
3035.2	3.29468	80.7	79.6
3035.4	3.29446	80.9	80.6
3035.6	3.29424	79.1	80.6
3035.8	3.29402	77.8	80.6
3036.0	3.29381	79.4	82.1
3036.2	3.29359	81.6	84.7
3036.4	3.29337	87.1	85.9
3036.6	3.29316	88.1	86.6
3036.8	3.29294	90.2	87.6
3037.0	3.29272	91.8	89.5
3037.2	3.29251	91.4	90.3
3037.4	3.29229	92.5	90.1
3037.6	3.29207	93.4	90.8
3037.8	3.29186	93.5	91.5

Case No		30	31
p(atm)		$8.42 \times 10^{[illegible]}$	$8.42 \times 10^{[illegible]}$
P_e(atm)		5.01×10^{0}	1.001×10^{1}
w(gm/cm²)		2.05×10^{-2}	2.05×10^{-2}
ν (cm⁻¹)	λ (micron)	T × 100	T × 100
3038.0	3.29164	94.8	91.2
3038.2	3.29142	94.7	91.5
3038.4	3.29121	94.1	90.6
3038.6	3.29099	95.4	91.2
3038.8	3.29077	95.6	92.3
3039.0	3.29056	95.5	92.6
3039.2	3.29034	95.0	92.2
3039.4	3.29012	96.0	91.9
3039.6	3.28991	96.1	92.6
3039.8	3.28969	95.7	92.9
3040.0	3.28947	95.8	92.8
3040.2	3.28926	96.0	93.6
3040.4	3.28904	95.4	93.5
3040.6	3.28882	95.6	92.3
3040.8	3.28861	95.1	91.6
3041.0	3.28839	96.2	91.7
3041.2	3.28818	95.6	92.2
3041.4	3.28796	94.6	93.2
3041.6	3.28774	94.7	93.7
3041.8	3.28753	95.6	93.3
3042.0	3.28731	95.1	93.1
3042.2	3.28709	94.6	93.8
3042.4	3.28688	94.8	92.7
3042.6	3.28666	95.1	93.2
3042.8	3.28645	95.3	93.6
3043.0	3.28623	94.7	93.7
3043.2	3.28601	93.7	93.4
3043.4	3.28580	95.6	92.7
3043.6	3.28558	94.9	92.9
3043.8	3.28537	95.5	93.6
3044.0	3.28515	95.0	94.0
3044.2	3.28494	96.0	93.9
3044.4	3.28472	95.7	94.3
3044.6	3.28450	95.7	93.2
3044.8	3.28429	96.1	93.9
3045.0	3.28407	96.2	94.1
3045.2	3.28386	95.3	93.5
3045.4	3.28364	94.9	93.1
3045.6	3.28343	95.0	92.8
3045.8	3.28321	94.7	92.6
3046.0	3.28299	94.9	92.6
3046.2	3.28278	94.1	92.6
3046.4	3.28256	93.5	92.0
3046.6	3.28235	94.1	90.9
3046.8	3.28213	93.7	91.0
3047.0	3.28192	91.8	90.5
3047.2	3.28170	92.0	89.5
3047.4	3.28149	91.5	88.3
3047.6	3.28127	90.0	86.4
3047.8	3.28106	88.4	85.1
3048.0	3.28084	85.7	83.3
3048.2	3.28062	80.4	81.1
3048.4	3.28041	75.0	79.9
3048.6	3.28019	70.0	78.6
3048.8	3.27998	67.2	79.0
3049.0	3.27976	68.2	79.9
3049.2	3.27955	72.6	80.0
3049.4	3.27933	78.0	82.0
3049.6	3.27912	82.4	82.8
3049.8	3.27890	85.9	85.0
3050.0	3.27869	87.6	86.3
3050.2	3.27847	89.7	87.3
3050.4	3.27826	90.3	88.1
3050.6	3.27804	90.6	88.3
3050.8	3.27783	92.5	89.9
3051.0	3.27761	92.3	89.9
3051.2	3.27740	92.4	89.6
3051.4	3.27718	93.1	89.8
3051.6	3.27697	93.7	90.4
3051.8	3.27675	93.3	89.2
3052.0	3.27654	93.4	89.5
3052.2	3.27633	93.7	90.4
3052.4	3.27611	93.4	90.9
3052.6	3.27590	94.2	90.3
3052.8	3.27568	93.0	90.8
3053.0	3.27547	93.5	90.3
3053.2	3.27525	93.9	89.6
3053.4	3.27504	93.7	89.3
3053.6	3.27482	93.2	89.1
3053.8	3.27461	93.5	89.0
3054.0	3.27439	92.5	88.1
3054.2	3.27418	92.4	87.3
3054.4	3.27397	91.4	87.4
3054.6	3.27375	90.2	85.3
3054.8	3.27354	89.7	84.2
3055.0	3.27332	87.4	82.5
3055.2	3.27311	85.6	80.6
3055.4	3.27289	82.0	79.0
3055.6	3.27268	77.6	75.5
3055.8	3.27247	72.0	72.2
3056.0	3.27225	65.5	69.1
3056.2	3.27204	58.1	67.3
3056.4	3.27182	53.9	67.9
3056.6	3.27161	56.2	69.1
3056.8	3.27139	63.3	71.5
3057.0	3.27118	71.5	74.0
3057.2	3.27097	76.6	75.9
3057.4	3.27075	80.5	77.2
3057.6	3.27054	83.9	80.1
3057.8	3.27033	86.2	81.8
3058.0	3.27011	88.1	82.9
3058.2	3.26990	88.5	83.8
3058.4	3.26968	89.0	84.8
3058.6	3.26947	89.2	85.9
3058.8	3.26926	89.4	86.1
3059.0	3.26904	89.6	85.3
3059.2	3.26883	88.8	83.9
3059.4	3.26861	87.2	84.6
3059.6	3.26840	84.6	84.6
3059.8	3.26819	83.3	83.3
3060.0	3.26797	87.9	83.0
3060.2	3.26776	84.1	83.8
3060.4	3.26755	86.8	84.6
3060.6	3.26733	88.5	85.0
3060.8	3.26712	89.9	85.2
3061.0	3.26691	90.1	85.6
3061.2	3.26669	[illegible]	85.9
3061.4	3.26648	90.3	86.0
3061.6	3.26627	90.2	86.2
3061.8	3.26605	91.4	86.2

Case No		30	31
p(atm)		$8.42 \times 10^{[illegible]}$	$8.42 \times 10^{[illegible]}$
P_e(atm)		5.01×10^{0}	1.001×10^{1}
w(gm/cm²)		2.05×10^{-2}	2.05×10^{-2}
ν (cm⁻¹)	λ (micron)	T × 100	T × 100
3062.0	3.26584	90.9	89.0
3062.2	3.26563	90.4	84.5
3062.4	3.26541	89.2	83.7
3062.6	3.26520	88.3	82.5
3062.8	3.26499	88.5	81.2
3063.0	3.26477	86.3	80.8
3063.2	3.26456	84.4	79.4
3063.4	3.26435	80.5	76.7
3063.6	3.26413	77.0	74.0
3063.8	3.26392	72.6	72.5
3064.0	3.26371	65.0	69.9
3064.2	3.26349	57.1	68.1
3064.4	3.26328	52.1	66.0
3064.6	3.26307	54.0	69.1
3064.8	3.26286	60.2	69.5
3065.0	3.26264	67.9	70.5
3065.2	3.26243	72.7	72.6
3065.4	3.26222	76.1	73.4
3065.6	3.26200	76.7	73.4
3065.8	3.26179	76.9	74.1
3066.0	3.26158	76.8	73.6
3066.2	3.26137	73.7	74.2
3066.4	3.26115	70.7	73.1
3066.6	3.26094	66.9	71.5
3066.8	3.26073	61.7	71.0
3067.0	3.26052	57.3	71.4
3067.2	3.26030	60.9	73.1
3067.4	3.26009	66.9	74.5
3067.6	3.25988	73.3	76.2
3067.8	3.25966	79.2	78.3
3068.0	3.25945	82.7	80.2
3068.2	3.25924	85.4	82.4
3068.4	3.25903	87.1	84.3
3068.6	3.25882	88.7	85.4
3068.8	3.25860	89.2	85.8
3069.0	3.25839	90.6	86.0
3069.2	3.25818	90.8	86.6
3069.4	3.25797	90.8	87.1
3069.6	3.25775	92.5	87.4
3069.8	3.25754	91.5	87.1
3070.0	3.25733	93.3	88.5
3070.2	3.25712	92.8	89.4
3070.4	3.25690	92.6	89.9
3070.6	3.25669	92.6	90.3
3070.8	3.25648	93.0	91.8
3071.0	3.25627	94.0	91.5
3071.2	3.25606	93.1	91.0
3071.4	3.25584	94.0	90.9
3071.6	3.25563	94.7	91.5
3071.8	3.25542	94.9	91.3
3072.0	3.25521	94.4	91.0
3072.2	3.25500	93.5	91.2
3072.4	3.25478	94.0	91.6
3072.6	3.25457	94.2	91.3
3072.8	3.25436	93.5	91.3
3073.0	3.25415	94.1	90.8
3073.2	3.25394	93.5	90.5
3073.4	3.25373	94.0	91.1
3073.6	3.25351	93.5	90.1
3073.8	3.25330	93.5	90.7
3074.0	3.25309	93.3	91.0
3074.2	3.25288	93.3	90.9
3074.4	3.25267	93.0	91.5
3074.6	3.25246	93.2	89.8
3074.8	3.25224	92.4	89.6
3075.0	3.25203	92.9	89.5
3075.2	3.25182	93.1	88.6
3075.4	3.25161	92.8	90.1
3075.6	3.25140	92.3	89.7
3075.8	3.25119	92.1	88.3
3076.0	3.25098	92.2	87.3
3076.2	3.25076	91.7	87.8
3076.4	3.25055	90.0	87.6
3076.6	3.25034	90.0	86.9
3076.8	3.25013	88.8	86.0
3077.0	3.24992	87.0	84.7
3077.2	3.24971	85.3	81.8
3077.4	3.24950	82.1	83.3
3077.6	3.24929	77.1	79.3
3077.8	3.24907	74.5	78.8
3078.0	3.24886	73.4	78.7
3078.2	3.24865	74.6	77.2
3078.4	3.24844	76.1	76.1
3078.6	3.24823	77.7	75.6
3078.8	3.24802	76.3	75.7
3079.0	3.24781	74.3	74.0
3079.2	3.24760	69.9	72.8
3079.4	3.24739	65.4	72.0
3079.6	3.24717	61.7	72.0
3079.8	3.24696	61.4	72.1
3080.0	3.24675	65.3	72.7
3080.2	3.24654	70.8	73.8
3080.4	3.24633	74.6	75.1
3080.6	3.24612	76.7	75.2
3080.8	3.24591	75.9	74.9
3081.0	3.24570	74.8	74.9
3081.2	3.24549	71.6	75.2
3081.4	3.24528	69.6	75.1
3081.6	3.24507	72.3	74.9
3081.8	3.24486	74.9	76.0
3082.0	3.24465	77.7	76.6
3082.2	3.24444	77.2	76.5
3082.4	3.24423	75.9	77.4
3082.6	3.24401	74.7	78.7
3082.8	3.24380	75.9	80.6
3083.0	3.24359	79.5	81.9
3083.2	3.24338	83.0	82.3
3083.4	3.24317	86.3	83.0
3083.6	3.24296	87.7	84.6
3083.8	3.24275	88.8	85.5
3084.0	3.24254	90.7	86.0
3084.2	3.24233	90.0	86.4
3084.4	3.24212	91.4	87.3
3084.6	3.24191	91.4	87.8
3084.8	3.24170	91.3	88.3
3085.0	3.24149	91.8	88.7
3085.2	3.24128	91.2	88.1
3085.4	3.24107	92.2	88.4
3085.6	3.24086	91.3	88.1
3085.8	3.24065	91.6	87.5

Case No		30	31
p(atm)		$8.42 \times 10^{[illegible]}$	$8.42 \times 10^{[illegible]}$
P_e(atm)		5.01×10^{0}	1.001×10^{1}
w(gm/cm²)		2.05×10^{-2}	2.05×10^{-2}
ν (cm⁻¹)	λ (micron)	T × 100	T × 100
3086.0	3.24044	91.7	87.3
3086.2	3.24023	90.7	88.8
3086.4	3.24002	89.6	87.8
3086.6	3.23981	89.1	87.5
3086.8	3.23960	87.6	86.8
3087.0	3.23939	85.1	85.3
3087.2	3.23918	85.5	86.8
3087.4	3.23897	85.6	87.2
3087.6	3.23876	88.4	87.5
3087.8	3.23855	89.5	87.9
3088.0	3.23834	91.5	88.1
3088.2	3.23813	90.8	90.2
3088.4	3.23792	91.8	89.9
3088.6	3.23771	92.1	89.0
3088.8	3.23750	92.9	89.0
3089.0	3.23729	92.6	89.7
3089.2	3.23708	92.8	90.1
3089.4	3.23687	93.0	90.2
3089.6	3.23666	92.9	89.9
3089.8	3.23646	93.7	89.5
3090.0	3.23625	91.9	89.6
3090.2	3.23604	92.7	88.8
3090.4	3.23583	92.9	89.3
3090.6	3.23562	92.9	89.2
3090.8	3.23541	92.1	90.4
3091.0	3.23520	91.9	89.1
3091.2	3.23499	92.6	88.3
3091.4	3.23478	92.3	88.9
3091.6	3.23457	92.0	88.1
3091.8	3.23436	91.6	87.5
3092.0	3.23415	92.2	86.7
3092.2	3.23394	91.5	86.4
3092.4	3.23373	91.1	87.4
3092.6	3.23353	90.2	[illegible]
3092.8	3.23332	89.2	84.7
3093.0	3.23311	88.6	83.3
3093.2	3.23290	85.9	83.1
3093.4	3.23269	83.4	81.6
3093.6	3.23248	82.2	81.0
3093.8	3.23227	82.2	80.4
3094.0	3.23206	81.1	79.7
3094.2	3.23185	81.3	79.1
3094.4	3.23164	80.6	78.0
3094.6	3.23144	79.2	76.7
3094.8	3.23123	78.4	75.3
3095.0	3.23102	76.8	74.1
3095.2	3.23081	73.8	71.7
3095.4	3.23060	69.0	70.2
3095.6	3.23039	62.1	69.1
3095.8	3.23018	56.2	68.2
3096.0	3.22997	53.9	67.8
3096.2	3.22977	58.0	69.1
3096.4	3.22956	64.3	69.7
3096.6	3.22935	68.5	70.8
3096.8	3.22914	72.7	73.9
3097.0	3.22893	76.0	75.6
3097.2	3.22872	78.9	77.2
3097.4	3.22851	80.9	76.8
3097.6	3.22831	82.3	78.0
3097.8	3.22810	84.0	79.1
3098.0	3.22789	84.1	78.5
3098.2	3.22768	85.0	77.3
3098.4	3.22747	84.8	75.2
3098.6	3.22726	82.9	76.4
3098.8	3.22706	81.5	75.1
3099.0	3.22685	77.6	73.5
3099.2	3.22664	72.9	72.1
3099.4	3.22643	67.6	71.1
3099.6	3.22622	65.6	69.3
3099.8	3.22601	65.0	68.4
3100.0	3.22581	67.1	68.4
3100.2	3.22560	69.3	68.9
3100.4	3.22539	68.9	67.8
3100.6	3.22518	66.5	67.[illegible]
3100.8	3.22497	61.5	66.5
3101.0	3.22477	56.4	66.9
3101.2	3.22456	53.8	65.4
3101.4	3.22435	56.4	67.0
3101.6	3.22414	61.4	68.3
3101.8	3.22393	66.0	68.1
3102.0	3.22373	70.8	69.1
3102.2	3.22352	71.9	70.4
3102.4	3.22331	72.5	71.4
3102.6	3.22310	71.3	71.7
3102.8	3.22290	69.9	72.8
3103.0	3.22269	69.1	73.7
3103.2	3.22248	70.6	74.5
3103.4	3.22227	74.6	75.3
3103.6	3.22206	77.8	77.7
3103.8	3.22186	81.2	79.[illegible]
3104.0	3.22165	84.6	81.1
3104.2	3.22144	87.3	82.0
3104.4	3.22123	87.1	82.5
3104.6	3.22103	88.3	83.6
3104.8	3.22082	89.6	84.3
3105.0	3.22061	89.0	84.5
3105.2	3.22040	89.8	84.8
3105.4	3.22020	90.2	85.0
3105.6	3.21999	89.5	85.3
3105.8	3.21978	89.7	85.5
3106.0	3.21958	89.1	84.7
3106.2	3.21937	89.0	83.7
3106.4	3.21916	87.9	83.0
3106.6	3.21895	87.4	82.4
3106.8	3.21875	85.6	81.1
3107.0	3.21854	83.2	81.3
3107.2	3.21833	79.0	80.3
3107.4	3.21812	77.3	79.4
3107.6	3.21792	77.9	79.5
3107.8	3.21771	79.7	80.4
3108.0	3.21750	81.3	80.4
3108.2	3.21730	81.5	80.5
3108.4	3.21709	83.5	81.2
3108.6	3.21688	85.1	82.2
3108.8	3.21668	85.9	81.5
3109.0	3.21647	85.7	81.3
3109.2	3.21626	84.1	80.8
3109.4	3.21605	82.6	79.9
3109.6	3.21585	81.1	79.8
3109.8	3.21564	80.3	79.9

Sam. No.		30	31
p (atm)		8.42 × 10^{-3}	8.42 × 10^{-3}
P_e (atm)		5.01 × 10^{0}	1.003 × 10^{1}
w (gm/cm²)		2.05 × 10^{-2}	2.05 × 10^{-2}
ν (cm^{-1})	λ (micron)	T × 100	T × 100
3110.0	3.21543	80.7	80.5
3110.2	3.21523	81.6	81.1
3110.4	3.21502	81.3	81.1
3110.6	3.21481	82.3	80.9
3110.8	3.21461	83.9	80.2
3111.0	3.21440	85.1	79.7
3111.2	3.21419	86.1	79.9
3111.4	3.21399	85.1	80.6
3111.6	3.21378	83.8	79.5
3111.8	3.21357	81.1	78.5
3112.0	3.21337	78.2	78.0
3112.2	3.21316	75.6	78.3
3112.4	3.21295	75.6	77.4
3112.6	3.21275	77.4	77.8
3112.8	3.21254	80.8	78.3
3113.0	3.21234	82.9	78.1
3113.2	3.21213	83.2	[illegible]
3113.4	3.21192	83.5	78.3
3113.6	3.21172	83.9	77.7
3113.8	3.21151	82.6	77.3
3114.0	3.21130	80.3	76.5
3114.2	3.21110	77.0	75.6
3114.4	3.21089	74.7	[illegible]
3114.6	3.21069	73.1	72.6
3114.8	3.21048	72.9	70.7
3115.0	3.21027	71.1	69.6
3115.2	3.21007	68.2	67.5
3115.4	3.20986	63.0	65.0
3115.6	3.20965	56.9	63.8
3115.8	3.20945	52.1	63.4
3116.0	3.20924	52.4	63.7
3116.2	3.20904	57.0	64.9
3116.4	3.20883	63.0	66.6
3116.6	3.20862	68.1	67.6
3116.8	3.20842	73.0	68.3
3117.0	3.20821	75.4	69.3
3117.2	3.20801	76.3	70.5
3117.4	3.20780	76.6	70.7
3117.6	3.20760	75.3	69.7
3117.8	3.20739	71.6	66.9
3118.0	3.20719	67.3	66.2
3118.2	3.20698	63.3	65.9
3118.4	3.20677	62.0	65.4
3118.6	3.20657	60.2	64.4
3118.8	3.20636	58.5	64.5
3119.0	3.20616	57.1	65.5
3119.2	3.20595	59.6	66.7
3119.4	3.20574	64.7	67.6
3119.6	3.20554	70.4	69.4
3119.8	3.20533	75.1	70.9
3120.0	3.20513	79.0	72.3
3120.2	3.20492	80.8	73.7
3120.4	3.20472	82.3	74.0
3120.6	3.20451	83.2	74.6
3120.8	3.20431	82.0	74.8
3121.0	3.20410	81.5	74.4
3121.2	3.20390	79.7	73.3
3121.4	3.20369	77.6	70.3
3121.6	3.20349	74.2	68.5
3121.8	3.20328	70.1	67.8
3122.0	3.20307	64.6	64.7
3122.2	3.20287	56.8	63.1
3122.4	3.20266	51.0	61.9
3122.6	3.20246	49.4	61.3
3122.8	3.20225	51.8	62.8
3123.0	3.20205	57.1	66.4
3123.2	3.20184	63.2	68.8
3123.4	3.20164	70.4	70.2
3123.6	3.20143	74.9	72.7
3123.8	3.20123	78.8	74.6
3124.0	3.20102	81.7	75.3
3124.2	3.20082	82.7	77.1
3124.4	3.20061	83.2	77.2
3124.6	3.20041	83.5	77.7
3124.8	3.20020	82.3	77.8
3125.0	3.20000	80.6	77.7
3125.2	3.19980	80.5	77.2
3125.4	3.19959	80.1	76.5
3125.6	3.19939	79.4	76.0
3125.8	3.19918	77.2	75.6
3126.0	3.19898	75.1	75.0
3126.2	3.19877	73.8	74.2
3126.4	3.19857	70.9	73.7
3126.6	3.19836	68.4	73.6
3126.8	3.19816	67.0	73.6
3127.0	3.19795	69.6	74.7
3127.2	3.19775	73.7	75.8
3127.4	3.19754	78.5	77.1
3127.6	3.19734	82.6	79.0
3127.8	3.19714	84.6	81.0
3128.0	3.19693	86.0	82.0
3128.2	3.19673	87.1	82.8
3128.4	3.19652	87.3	83.7
3128.6	3.19632	88.7	84.6
3128.8	3.19611	89.4	84.8
3129.0	3.19591	90.5	85.2
3129.2	3.19570	91.1	85.7
3129.4	3.19550	90.8	85.5
3129.6	3.19530	91.2	86.1
3129.8	3.19509	91.6	85.6
3130.0	3.19489	90.9	84.6
3130.2	3.19468	90.4	84.9
3130.4	3.19448	90.9	84.9
3130.6	3.19428	90.4	84.8
3130.8	3.19407	89.8	84.6
3131.0	3.19387	88.5	84.4
3131.2	3.19366	88.3	83.5
3131.4	3.19346	87.6	82.7
3131.6	3.19326	86.2	81.4
3131.8	3.19305	83.9	79.3
3132.0	3.19285	81.9	77.1
3132.2	3.19264	77.8	75.2
3132.4	3.19244	72.9	73.3
3132.6	3.19224	66.3	71.2
3132.8	3.19203	59.0	69.6
3133.0	3.19183	54.4	69.6
3133.2	3.19163	54.3	70.4
3133.4	3.19142	60.5	72.0
3133.6	3.19122	68.0	73.9
3133.8	3.19101	71.8	76.6

Sam. No.		30	31
p (atm)		8.42 × 10^{-3}	8.42 × 10^{-3}
P_e (atm)		5.01 × 10^{0}	1.003 × 10^{1}
w (gm/cm²)		2.05 × 10^{-2}	2.05 × 10^{-2}
ν (cm^{-1})	λ (micron)	T × 100	T × 100
3134.0	3.19081	73.1	78.8
3134.2	3.19061	82.4	80.3
3134.4	3.19040	84.7	80.7
3134.6	3.19020	86.3	82.1
3134.8	3.190[illegible]	87.7	83.7
3135.0	3.18979	88.9	85.1
3135.2	3.18959	90.6	[illegible]
3135.4	3.18939	90.6	87.0
3135.6	3.18918	91.2	87.0
3135.8	3.18898	91.6	86.3
3136.0	3.18878	91.7	87.3
3136.2	3.18857	92.5	87.6
3136.4	3.18837	93.1	88.1
3136.6	3.18817	93.3	89.0
3136.8	3.18796	93.0	88.8
3137.0	3.18776	93.0	89.2
3137.2	3.18756	93.7	89.4
3137.4	3.18735	93.5	88.9
3137.6	3.18715	93.3	89.4
3137.8	3.18695	93.9	90.0
3138.0	3.18674	93.2	90.2
3138.2	3.18654	94.3	89.9
3138.4	3.18634	94.2	90.0
3138.6	3.18613	94.2	89.8
3138.8	3.18593	94.3	89.7
3139.0	3.18573	93.0	90.0
3139.2	3.18552	93.3	90.3
3139.4	3.18532	93.1	90.3
3139.6	3.18512	93.1	90.0
3139.8	3.18492	93.1	89.7
3140.0	3.18471	92.8	90.0
3140.2	3.18451	93.1	90.3
3140.4	3.18431	93.3	90.3
3140.6	3.18410	93.7	89.8
3140.8	3.18390	94.3	90.6
3141.0	3.18370	93.8	90.7
3141.2	3.18350	93.1	90.2
3141.4	3.18329	93.7	89.1
3141.6	3.18309	93.2	89.2
3141.8	3.18289	92.4	89.1
3142.0	3.18269	92.7	88.9
3142.2	3.18248	90.5	89.5
3142.4	3.18228	90.4	[illegible]
3142.6	3.18208	89.1	87.6
3142.8	3.18188	87.9	87.1
3143.0	3.18167	88.6	87.7
3143.2	3.18147	90.9	89.2
3143.4	3.18127	90.6	89.9
3143.6	3.18107	92.1	90.0
3143.8	3.18086	92.6	89.4
3144.0	3.18066	93.0	90.2
3144.2	3.18046	93.8	90.7
3144.4	3.18026	93.5	91.0
3144.6	3.18005	93.5	91.5
3144.8	3.17985	94.6	91.5
3145.0	3.17965	93.7	91.5
3145.2	3.17945	93.3	91.6
3145.4	3.17925	94.2	91.4
3145.6	3.17904	93.8	91.5
3145.8	3.17884	93.8	91.7
3146.0	3.17864	93.6	91.8
3146.2	3.17844	94.2	91.7
3146.4	3.17824	93.4	91.3
3146.6	3.17803	93.3	91.3
3146.8	3.17783	94.9	91.7
3147.0	3.17763	94.5	92.0
3147.2	3.17743	94.5	91.4
3147.4	3.17723	94.3	91.1
3147.6	3.17702	94.4	91.4
3147.8	3.17682	94.8	92.1
3148.0	3.17662	94.2	91.8
3148.2	3.17642	94.0	91.4
3148.4	3.17622	94.3	91.3
3148.6	3.17601	94.2	91.4
3148.8	3.17581	94.0	91.3
3149.0	3.17561	94.2	91.3
3149.2	3.17541	93.8	91.6
3149.4	3.17521	94.3	92.1
3149.6	3.17501	94.0	91.7
3149.8	3.17480	93.9	91.2
3150.0	3.17460	94.6	90.9
3150.2	3.17440	94.2	91.3
3150.4	3.17420	93.7	91.3
3150.6	3.17400	93.4	91.0
3150.8	3.17380	92.6	90.3
3151.0	3.17360	92.2	90.5
3151.2	3.17339	91.4	89.9
3151.4	3.17319	91.1	89.3
3151.6	3.17299	92.1	89.8
3151.8	3.17279	91.9	89.3
3152.0	3.17259	91.8	89.3
3152.2	3.17239	91.7	89.5
3152.4	3.17219	91.7	89.3
3152.6	3.17199	92.0	89.4
3152.8	3.17178	93.1	89.7
3153.0	3.17158	93.6	90.1
3153.2	3.17138	93.8	90.2
3153.4	3.17118	94.1	90.9
3153.6	3.17098	95.0	91.3
3153.8	3.17078	94.3	90.8
3154.0	3.17058	94.8	91.0
3154.2	3.17038	94.3	91.0
3154.4	3.17017	95.8	91.1
3154.6	3.16997	94.4	91.6
3154.8	3.16977	95.5	91.0
3155.0	3.16957	95.0	91.0
3155.2	3.16937	94.4	91.4
3155.4	3.16917	94.7	90.9
3155.6	3.16897	95.0	91.4
3155.8	3.16877	95.2	91.9
3156.0	3.16857	95.0	92.3
3156.2	3.16837	95.1	92.3
3156.4	3.16817	94.7	91.9
3156.6	3.16797	94.9	91.5
3156.8	3.16776	95.1	91.3
3157.0	3.16756	94.6	90.8
3157.2	3.16736	95.4	91.2
3157.4	3.16716	95.2	91.6
3157.6	3.16696	95.3	91.3
3157.8	3.16676	94.4	91.1

Sam. No.		30	31
p (atm)		8.42 × 10^{-3}	8.42 × 10^{-3}
P_e (atm)		5.01 × 10^{0}	1.003 × 10^{1}
w (gm/cm²)		2.05 × 10^{-2}	2.05 × 10^{-2}
ν (cm^{-1})	λ (micron)	T × 100	T × 100
3158.0	3.16656	95.3	91.5
3158.2	3.16636	95.6	[illegible]
3158.4	3.16616	95.2	91.5
3158.6	3.16596	95.0	91.3
3158.8	3.16576	94.9	91.2
3159.0	3.16556	94.8	91.2
3159.2	3.16536	94.7	91.9
3159.4	3.16516	95.3	91.7
3159.6	3.16496	94.3	91.6
3159.8	3.16476	95.1	[illegible]
3160.0	3.16456	94.7	91.3
3160.2	3.16436	94.8	91.5
3160.4	3.16416	94.6	91.6
3160.6	3.16396	95.4	90.9
3160.8	3.16376	95.3	91.4
3161.0	3.16356	94.6	91.8
3161.2	3.16336	94.4	91.7
3161.4	3.16316	95.2	90.9
3161.6	3.16296	95.2	91.0
3161.8	3.16276	95.2	90.9
3162.0	3.16256	94.8	90.5
3162.2	3.16236	94.9	90.7
3162.4	3.16216	94.3	91.1
3162.6	3.16196	94.7	91.3
3162.8	3.16176	94.7	90.8
3163.0	3.16156	94.8	90.8
3163.2	3.16136	94.4	90.9
3163.4	3.16116	93.7	90.9
3163.6	3.16096	93.1	90.8
3163.8	3.16076	93.4	91.0
3164.0	3.16056	93.5	90.9
3164.2	3.16036	93.8	90.8
3164.4	3.16016	93.6	91.2
3164.6	3.15996	93.1	90.7
3164.8	3.15976	93.9	90.8
3165.0	3.15956	93.5	91.4
3165.2	3.15936	93.8	91.2
3165.4	3.15916	93.6	90.6
3165.6	3.15896	93.9	90.3
3165.8	3.15876	93.4	89.9
3166.0	3.15855	93.4	90.2
3166.2	3.15836	93.5	90.4
3166.4	3.15816	93.4	90.6
3166.6	3.15796	93.3	90.6
3166.8	3.15776	93.0	89.7
3167.0	3.15756	92.3	89.5
3167.2	3.15736	91.9	89.7
3167.4	3.15716	92.0	89.5
3167.6	3.15696	91.2	88.8
3167.8	3.15676	90.6	88.1
3168.0	3.15657	90.4	87.8
3168.2	3.15637	91.1	88.5
3168.4	3.15617	91.7	88.7
3168.6	3.15597	91.9	88.3
3168.8	3.15577	91.8	87.8
3169.0	3.15557	91.5	87.8
3169.2	3.15537	91.0	88.3
3169.4	3.15517	90.7	88.9
3169.6	3.15497	90.1	88.4
3169.8	3.15477	89.6	88.5
3170.0	3.15457	89.9	88.6
3170.2	3.15438	91.1	88.8
3170.4	3.15418	91.5	88.4
3170.6	3.15398	91.7	88.4
3170.8	3.15378	92.7	89.2
3171.0	3.15358	93.3	89.1
3171.2	3.15338	93.4	89.9
3171.4	3.15318	93.5	90.0
3171.6	3.15298	93.7	89.7
3171.8	3.15278	93.5	90.0
3172.0	3.15259	94.6	90.2
3172.2	3.15239	93.7	89.9
3172.4	3.15219	93.8	88.7
3172.6	3.15199	93.5	89.0
3172.8	3.15179	93.2	89.3
3173.0	3.15159	93.0	89.3
3173.2	3.15139	92.7	88.7
3173.4	3.15119	92.5	89.7
3173.6	3.15100	93.3	89.8
3173.8	3.15080	2.8	89.1
3174.0	3.15060	93.2	88.6
3174.2	3.15040	92.4	87.9
3174.4	3.15020	92.6	87.5
3174.6	3.15000	92.1	87.6
3174.8	3.14980	91.6	87.1
3175.0	3.14961	91.8	86.5
3175.2	3.14961	91.2	85.9
3175.4	3.14921	91.4	85.8
3175.6	3.14901	90.4	85.8
3175.8	3.14881	90.4	85.4
3176.0	3.14861	90.0	84.6
3176.2	3.14842	89.0	83.9
3176.4	3.14822	88.4	83.1
3176.6	3.14802	88.0	81.9
3176.8	3.14782	85.1	[illegible]
3177.0	3.14762	83.0	74.2
3177.2	3.14743	80.1	76.5
3177.4	3.14723	75.0	74.5
3177.6	3.14703	69.6	71.5
3177.8	3.14683	62.0	[illegible]
3178.0	3.14663	55.5	68.7
3178.2	3.14644	52.5	68.3
3178.4	3.14624	55.1	69.0
3178.6	3.14604	62.0	70.3
3178.8	3.14584	68.3	72.0
3179.0	3.14564	75.0	74.2
3179.2	3.14545	78.8	76.6
3179.4	3.14525	81.7	78.5
3179.6	3.14505	83.6	79.9
3179.8	3.14485	85.7	80.6
3180.0	3.14465	86.8	81.6
3180.2	3.14446	88.4	82.6
3180.4	3.14426	89.1	83.5
3180.6	3.14406	89.8	84.6
3180.8	3.14386	90.4	84.8
3181.0	3.14367	90.3	84.6
3181.2	3.14347	90.0	85.3
3181.4	3.14327	90.1	86.1
3181.6	3.14307	90.6	86.1
3181.8	3.14288	90.3	85.4

Sam. No.		30	31
p (atm)		8.42 × 10^{-3}	8.42 × 10^{-3}
P_e (atm)		5.01 × 10^{0}	1.003 × 10^{1}
w (gm/cm²)		2.05 × 10^{-2}	2.05 × 10^{-2}
ν (cm^{-1})	λ (micron)	T × 100	T × 100
3182.0	3.14268	90.1	85.7
3182.2	3.14248	90.1	85.5
3182.4	3.14228	89.3	85.6
3182.6	3.14209	89.7	85.7
3182.8	3.14189	89.0	85.4
3183.0	3.14169	89.4	85.3
3183.2	3.14149	89.7	85.4
3183.4	3.14130	88.9	85.1
3183.6	3.14110	88.5	84.1
3183.8	3.14090	87.1	83.1
3184.0	3.14070	85.9	82.0
3184.2	3.14051	83.9	81.2
3184.4	3.14031	80.4	79.9
3184.6	3.14011	77.4	78.7
3184.8	3.13991	73.9	76.6
3185.0	3.13972	71.0	77.3
3185.2	3.13952	69.6	77.3
3185.4	3.13932	71.6	78.6
3185.6	3.13913	75.5	78.9
3185.8	3.13893	79.4	80.3
3186.0	3.13873	83.1	81.9
3186.2	3.13853	86.2	83.4
3186.4	3.13834	88.1	83.9
3186.6	3.13814	88.4	84.6
3186.8	3.13794	90.0	85.5
3187.0	3.13775	90.6	85.8
3187.2	3.13755	90.8	86.5
3187.4	3.13735	91.3	87.2
3187.6	3.13716	93.1	87.7
3187.8	3.13696	92.3	88.4
3188.0	3.13676	92.7	89.1
3188.2	3.13657	92.7	89.6
3188.4	3.13637	93.0	89.4
3188.6	3.13617	93.4	[illegible]
3188.8	3.13598	92.6	89.4
3189.0	3.13578	93.1	90.6
3189.2	3.13558	93.0	90.4
3189.4	3.13539	92.8	90.0
3189.6	3.13519	93.0	89.8
3189.8	3.13499	93.1	90.1
3190.0	3.13480	93.4	89.9
3190.2	3.13460	93.2	89.8
3190.4	3.13440	93.6	89.9
3190.6	3.13421	92.7	90.3
3190.8	3.13401	93.3	90.1
3191.0	3.13381	93.2	90.0
3191.2	3.13362	92.7	90.5
3191.4	3.13342	92.5	89.8
3191.6	3.13322	93.2	89.5
3191.8	3.13303	92.7	89.5
3192.0	3.13283	91.8	89.8
3192.2	3.13264	91.9	89.4
3192.4	3.13244	92.7	88.9
3192.6	3.13224	92.9	88.8
3192.8	3.13205	92.8	89.3
3193.0	3.13185	92.2	89.3
3193.2	3.13165	92.9	88.9
3193.4	3.13146	92.7	88.7
3193.6	3.13126	92.5	88.8
3193.8	3.13107	92.4	88.4
3194.0	3.13087	92.3	87.6
3194.2	3.13067	91.6	87.9
3194.4	3.13048	90.9	86.9
3194.6	3.13028	90.4	85.7
3194.8	3.13009	89.9	85.6
3195.0	3.12989	89.1	84.7
3195.2	3.12969	88.1	83.9
3195.4	3.12950	86.1	83.5
3195.6	3.12930	83.9	81.5
3195.8	3.12911	80.7	80.3
3196.0	3.12891	77.5	79.7
3196.2	3.12872	76.1	79.2
3196.4	3.12852	76.9	79.2
3196.6	3.12832	77.0	77.2
3196.8	3.12813	78.2	76.2
3197.0	3.12793	76.1	74.3
3197.2	3.12774	73.3	73.1
3197.4	3.12754	67.4	71.9
3197.6	3.12735	62.2	70.2
3197.8	3.12715	57.4	69.1
3198.0	3.12695	56.0	69.3
3198.2	3.12676	60.6	70.5
3198.4	3.12656	67.6	71.8
3198.6	3.12637	73.5	74.1
3198.8	3.12617	77.6	76.3
3199.0	3.12598	80.2	78.1
3199.2	3.12578	82.1	78.9
3199.4	3.12559	82.2	79.8
3199.6	3.12539	82.0	80.8
3199.8	3.12520	82.9	82.2
3200.0	3.12500	83.7	83.2
3200.2	3.12480	84.7	83.7
3200.4	3.12461	86.2	83.9
3200.6	3.12441	87.7	85.0
3200.8	3.12422	89.4	85.5
3201.0	3.12402	90.3	85.8
3201.2	3.12383	90.7	86.8
3201.4	3.12363	91.6	86.9
3201.6	3.12344	91.6	87.0
3201.8	3.12324	91.6	87.6
3202.0	3.12305	91.4	88.1
3202.2	3.12285	91.5	88.5
3202.4	3.12266	91.5	88.7
3202.6	3.12246	91.8	88.4
3202.8	3.12227	91.8	88.2
3203.0	3.12207	92.3	88.2
3203.2	3.12188	92.0	88.4
3203.4	3.12168	91.1	88.6
3203.6	3.12149	91.4	88.8
3203.8	3.12129	92.1	89.1
3204.0	3.12110	92.7	89.5
3204.2	3.12090	92.3	89.7
3204.4	3.12071	92.6	89.5
3204.6	3.12051	92.5	88.9
3204.8	3.12032	92.6	88.9
3205.0	3.12012	92.6	88.9
3205.2	3.11993	92.3	88.9
3205.4	3.11974	91.9	89.2
3205.6	3.11954	91.9	89.1
3205.8	3.11935	92.3	88.7

Sam. No.		
p (atm)		8.42 × 10^{-3}
P_e (atm)		5.01 × 10^{0}
w (gm/cm²)		2.05 × 10^{-2}
ν (cm^{-1})	λ (micron)	T × 100
3206.0	3.11915	91.7
3206.2	3.11896	92.2
3206.4	3.11876	91.5
3206.6	3.11857	91.1
3206.8	3.11837	91.0
3207.0	3.11818	91.2
3207.2	3.11798	90.3
3207.4	3.11779	90.1
3207.6	3.11760	89.5
3207.8	3.11740	88.8
3208.0	3.11721	88.3
3208.2	3.11701	86.9
3208.4	3.11682	85.8
3208.6	3.11662	83.3
3208.8	3.11643	81.1
3209.0	3.11624	76.5
3209.2	3.11604	71.2
3209.4	3.11585	65.0
3209.6	3.11565	59.0
3209.8	3.11546	57.2
3210.0	3.11526	60.3
3210.2	3.11507	64.5
3210.4	3.11488	71.2
3210.6	3.11468	75.7
3210.8	3.11449	79.3
3211.0	3.11429	82.2
3211.2	3.11410	83.3
3211.4	3.11391	85.0
3211.6	3.11371	85.7
3211.8	3.11352	85.6
3212.0	3.11333	85.5
3212.2	3.11313	85.7
3212.4	3.11294	85.5
3212.6	3.11274	85.4
3212.8	3.11255	84.0
3213.0	3.11236	81.5
3213.2	3.11216	79.3
3213.4	3.11197	74.8
3213.6	3.11177	69.1
3213.8	3.11158	62.3
3214.0	3.11139	55.6
3214.2	3.11119	52.6
3214.4	3.11100	54.0
3214.6	3.11081	59.6
3214.8	3.11061	66.2
3215.0	3.11042	72.0
3215.2	3.11023	76.1
3215.4	3.11003	78.7
3215.6	3.10984	80.4
3215.8	3.10965	82.2
3216.0	3.10945	82.2
3216.2	3.10926	81.3
3216.4	3.10907	79.8
3216.6	3.10887	79.2
3216.8	3.10868	79.7
3217.0	3.10849	81.1
3217.2	3.10829	83.2
3217.4	3.10810	84.2
3217.6	3.10791	84.3
3217.8	3.10771	84.7
3218.0	3.10752	84.3
3218.2	3.10733	83.3
3218.4	3.10713	81.3
3218.6	3.10694	77.6
3218.8	3.10675	73.7
3219.0	3.10655	67.9
3219.2	3.10636	60.8
3219.4	3.10617	57.3
3219.6	3.10598	57.9
3219.8	3.10578	61.1
3220.0	3.10559	65.4
3220.2	3.10540	68.5
3220.4	3.10520	69.9
3220.6	3.10501	72.7
3220.8	3.10482	76.3
3221.0	3.10463	79.1
3221.2	3.10443	81.2
3221.4	3.10424	81.7
3221.6	3.10405	81.7
3221.8	3.10385	81.1
3222.0	3.10366	80.3
3222.2	3.10347	80.6
3222.4	3.10328	82.5
3222.6	3.10308	84.8
3222.8	3.10289	86.6
3223.0	3.10270	87.5
3223.2	3.10251	89.4
3223.4	3.10231	89.6
3223.6	3.10212	89.8
3223.8	3.10193	90.5
3224.0	3.10174	90.5
3224.2	3.10154	91.0
3224.4	3.10135	90.8
3224.6	3.10116	91.0
3224.8	3.10097	90.5
3225.0	3.10078	90.6
3225.2	3.10058	89.5
3225.4	3.10039	89.2
3225.6	3.10020	88.1
3225.8	3.10001	88.6
3226.0	3.09981	87.4
3226.2	3.09962	86.8
3226.4	3.09943	86.8
3226.6	3.09924	85.1
3226.8	3.09905	82.9
3227.0	3.09885	79.2
3227.2	3.09866	76.1
3227.4	3.09847	72.1
3227.6	3.09828	71.4
3227.8	3.09809	73.9
3228.0	3.09789	77.8
3228.2	3.09770	81.4
3228.4	3.09751	84.1
3228.6	3.09732	83.9
3228.8	3.09713	83.9
3229.0	3.09693	82.1
3229.2	3.09674	81.1
3229.4	3.09655	78.5
3229.6	3.09636	76.0
3229.8	3.09617	73.9

Table 5-2 (Cont'd)

Sam. No.		30	31
p(atm)		8.42×10^{-3}	8.42×10^{-3}
P_e(atm)		5.03×10^{0}	1.003×10^{1}
u(gm/cm²)		2.05×10^{-2}	2.05×10^{-2}
ν (cm^{-1})	λ (micron)	T × 100	T × 100
3230.0	3.09598	71.7	76.7
3230.2	3.09578	73.4	77.0
3230.4	3.09559	76.3	77.5
3230.6	3.09540	79.3	78.0
3230.8	3.09521	79.6	78.0
3231.0	3.09502	79.9	78.3
3231.2	3.09483	82.6	79.5
3231.4	3.09463	83.4	80.6
3231.6	3.09444	84.5	81.1
3231.8	3.09425	84.3	80.7
3232.0	3.09406	83.2	79.8
3232.2	3.09387	80.9	79.0
3232.4	3.09368	78.9	78.3
3232.6	3.09349	76.1	77.3
3232.8	3.09329	73.3	76.6
3233.0	3.09310	72.6	76.6
3233.2	3.09291	74.5	78.0
3233.4	3.09272	78.2	79.0
3233.6	3.09253	82.4	80.2
3233.8	3.09234	85.6	81.7
3234.0	3.09215	86.6	82.7
3234.2	3.09195	87.0	83.3
3234.4	3.09176	87.7	83.5
3234.6	3.09157	88.5	84.0
3234.8	3.09138	88.2	84.4
3235.0	3.09119	88.2	84.6
3235.2	3.09100	87.9	84.4
3235.4	3.09081	88.7	83.7
3235.6	3.09062	86.0	82.4
3235.8	3.09043	84.6	81.3
3236.0	3.09023	81.6	80.3
3236.2	3.09004	77.5	79.6
3236.4	3.08985	74.1	78.6
3236.6	3.08966	71.2	77.9
3236.8	3.08947	70.9	77.8
3237.0	3.08928	74.1	79.5
3237.2	3.08909	78.3	80.7
3237.4	3.08890	81.7	81.5
3237.6	3.08871	84.1	81.6
3237.8	3.08852	85.6	82.3
3238.0	3.08833	86.5	83.2
3238.2	3.08814	87.1	84.2
3238.4	3.08794	87.4	84.5
3238.6	3.08775	86.0	84.4
3238.8	3.08756	88.1	84.0
3239.0	3.08737	87.6	84.1
3239.2	3.08718	86.9	83.2
3239.4	3.08699	85.2	82.0
3239.6	3.08680	82.5	81.3
3239.8	3.08661	79.7	80.9
3240.0	3.08642	76.4	80.4
3240.2	3.08623	75.9	79.4
3240.4	3.08604	77.3	80.7
3240.6	3.08585	81.3	81.7
3240.8	3.08566	83.7	82.2
3241.0	3.08547	85.2	82.4
3241.2	3.08528	85.5	82.9
3241.4	3.08509	85.8	83.5
3241.6	3.08490	85.6	83.6
3241.8	3.08471	84.9	83.5
3242.0	3.08452	85.4	83.3
3242.2	3.08433	85.0	82.3
3242.4	3.08414	86.0	82.2
3242.6	3.08394	86.2	82.7
3242.8	3.08375	85.3	81.6
3243.0	3.08356	84.6	80.8
3243.2	3.08337	83.6	80.0
3243.4	3.08318	83.1	78.7
3243.6	3.08299	81.9	77.4
3243.8	3.08280	80.1	76.0
3244.0	3.08261	76.5	74.0
3244.2	3.08242	72.0	71.1
3244.4	3.08223	64.9	67.9
3244.6	3.08204	57.7	65.3
3244.8	3.08185	49.6	63.2
3245.0	3.08166	44.9	61.8
3245.2	3.08147	46.2	63.2
3245.4	3.08128	51.7	64.4
3245.6	3.08109	59.6	67.1
3245.8	3.08090	67.1	69.3
3246.0	3.08071	72.7	72.1
3246.2	3.08052	77.3	74.5
3246.4	3.08034	80.7	76.6
3246.6	3.08015	82.7	78.3
3246.8	3.07996	84.2	79.9
3247.0	3.07977	85.2	81.0
3247.2	3.07958	85.3	81.9
3247.4	3.07939	85.9	83.4
3247.6	3.07920	86.7	84.5
3247.8	3.07901	87.6	84.7
3248.0	3.07882	88.7	84.8
3248.2	3.07863	89.5	85.1
3248.4	3.07844	89.6	85.5
3248.6	3.07825	90.4	86.3
3248.8	3.07806	90.3	87.5
3249.0	3.07787	91.1	88.5
3249.2	3.07768	90.4	87.9
3249.4	3.07749	90.0	88.1
3249.6	3.07730	90.1	88.4
3249.8	3.07711	90.8	88.8
3250.0	3.07692	90.9	86.4
3250.2	3.07673	91.2	88.0
3250.4	3.07654	90.6	87.6
3250.6	3.07636	90.8	87.3
3250.8	3.07617	90.9	87.4
3251.0	3.07598	90.8	87.6
3251.2	3.07579	90.5	87.2
3251.4	3.07560	90.0	86.9
3251.6	3.07541	89.8	86.5
3251.8	3.07522	89.1	85.9
3252.0	3.07503	89.0	85.4
3252.2	3.07484	88.9	84.7
3252.4	3.07465	88.8	83.8
3252.6	3.07446	87.4	82.6
3252.8	3.07427	86.4	81.2
3253.0	3.07409	84.2	79.5
3253.2	3.07390	81.8	76.9
3253.4	3.07371	77.6	74.3
3253.6	3.07352	70.7	71.6
3253.8	3.07333	63.0	68.2

Sam. No.		30	31
p(atm)		8.42×10^{-3}	8.42×10^{-3}
P_e(atm)		5.03×10^{0}	1.003×10^{1}
u(gm/cm²)		2.05×10^{-2}	2.05×10^{-2}
ν (cm^{-1})	λ (micron)	T × 100	T × 100
3254.0	3.07314	53.5	66.8
3254.2	3.07295	50.3	66.6
3254.4	3.07276	55.6	67.4
3254.6	3.07257	63.9	70.2
3254.8	3.07239	72.0	73.0
3255.0	3.07220	77.1	75.7
3255.2	3.07201	80.6	77.5
3255.4	3.07182	82.3	78.6
3255.6	3.07163	83.3	79.2
3255.8	3.07144	81.7	78.8
3256.0	3.07125	79.4	78.5
3256.2	3.07106	79.1	78.2
3256.4	3.07088	80.2	78.2
3256.6	3.07069	79.9	77.9
3256.8	3.07050	77.7	77.6
3257.0	3.07031	74.0	77.4
3257.2	3.07012	70.8	77.3
3257.4	3.06993	71.0	77.3
3257.6	3.06974	74.1	77.8
3257.8	3.06956	76.2	79.0
3258.0	3.06937	81.1	80.3
3258.2	3.06918	82.6	81.7
3258.4	3.06899	85.2	82.4
3258.6	3.06880	86.9	83.1
3258.8	3.06861	86.8	83.8
3259.0	3.06843	87.8	84.3
3259.2	3.06824	87.0	84.4
3259.4	3.06805	87.8	83.9
3259.6	3.06786	86.2	82.1
3259.8	3.06767	84.8	80.8
3260.0	3.06748	81.6	80.1
3260.2	3.06730	78.1	79.4
3260.4	3.06711	76.0	79.3
3260.6	3.06692	75.8	79.4
3260.8	3.06673	78.0	79.8
3261.0	3.06654	82.1	81.0
3261.2	3.06636	84.7	82.2
3261.4	3.06617	87.0	82.6
3261.6	3.06598	88.0	83.4
3261.8	3.06579	89.0	84.2
3262.0	3.06560	89.1	84.4
3262.2	3.06542	89.3	84.5
3262.4	3.06523	89.4	84.8
3262.6	3.06504	88.6	85.2
3262.8	3.06485	88.0	84.9
3263.0	3.06466	87.7	84.4
3263.2	3.06448	86.5	84.4
3263.4	3.06429	85.6	83.9
3263.6	3.06410	85.8	83.5
3263.8	3.06391	86.5	83.1
3264.0	3.06373	87.1	83.3
3264.2	3.06354	86.5	83.2
3264.4	3.06335	85.5	82.3
3264.6	3.06316	84.6	82.1
3264.8	3.06297	82.4	81.8
3265.0	3.06279	80.0	81.5
3265.2	3.06260	79.7	81.8
3265.4	3.06241	81.9	82.6
3265.6	3.06222	84.1	83.8
3265.8	3.06204	86.1	84.3
3266.0	3.06185	86.6	84.5
3266.2	3.06166	86.6	84.6
3266.4	3.06147	87.0	84.9
3266.6	3.06129	88.4	85.5
3266.8	3.06110	89.7	86.5
3267.0	3.06091	90.3	87.2
3267.2	3.06072	91.8	87.8
3267.4	3.06054	91.4	88.1
3267.6	3.06035	91.4	88.3
3267.8	3.06016	91.8	88.0
3268.0	3.05998	91.9	87.5
3268.2	3.05979	91.9	87.7
3268.4	3.05960	92.1	87.1
3268.6	3.05941	91.9	86.6
3268.8	3.05923	91.4	87.2
3269.0	3.05904	91.1	86.4
3269.2	3.05885	91.3	85.7
3269.4	3.05867	90.6	85.8
3269.6	3.05848	90.5	85.7
3269.8	3.05829	89.7	85.3
3270.0	3.05810	89.1	84.7
3270.2	3.05792	87.8	83.6
3270.4	3.05773	86.2	82.7
3270.6	3.05754	85.0	82.2
3270.8	3.05736	84.8	81.6
3271.0	3.05717	84.8	81.0
3271.2	3.05698	84.6	80.3
3271.4	3.05680	84.0	79.4
3271.6	3.05661	83.4	78.4
3271.8	3.05642	81.1	77.7
3272.0	3.05623	80.5	76.9
3272.2	3.05605	80.5	75.1
3272.4	3.05586	79.8	73.6
3272.6	3.05567	77.1	71.3
3272.8	3.05549	73.0	68.5
3273.0	3.05530	66.4	65.7
3273.2	3.05511	58.4	63.4
3273.4	3.05493	50.6	61.8
3273.6	3.05474	48.5	60.8
3273.8	3.05455	49.7	62.3
3274.0	3.05437	55.7	64.2
3274.2	3.05418	62.1	66.4
3274.4	3.05399	68.0	67.6
3274.6	3.05381	72.0	68.6
3274.8	3.05362	73.7	69.3
3275.0	3.05344	74.9	69.3
3275.2	3.05325	74.6	69.1
3275.4	3.05306	74.3	68.8
3275.6	3.05288	72.1	67.4
3275.8	3.05269	67.4	65.6
3276.0	3.05250	60.7	63.1
3276.2	3.05232	54.4	61.6
3276.4	3.05213	49.4	61.0
3276.6	3.05194	51.0	62.6
3276.8	3.05176	58.7	64.8
3277.0	3.05157	67.2	67.6
3277.2	3.05139	73.8	70.2
3277.4	3.05120	79.0	72.7
3277.6	3.05101	81.7	74.9
3277.8	3.05083	83.5	76.5

Sam. No.		30	31
p(atm)		8.42×10^{-3}	8.42×10^{-3}
P_e(atm)		5.03×10^{0}	1.003×10^{1}
u(gm/cm²)		2.05×10^{-2}	2.05×10^{-2}
ν (cm^{-1})	λ (micron)	T × 100	T × 100
3278.0	3.05064	84.8	77.6
3278.2	3.05045	85.0	78.2
3278.4	3.05027	84.5	78.4
3278.6	3.05008	84.2	78.6
3278.8	3.04990	82.6	78.7
3279.0	3.04971	82.0	78.7
3279.2	3.04952	81.6	78.6
3279.4	3.04934	82.1	78.6
3279.6	3.04915	80.6	78.6
3279.8	3.04897	79.6	79.1
3280.0	3.04878	78.2	79.6
3280.2	3.04859	78.1	79.8
3280.4	3.04841	80.9	80.3
3280.6	3.04822	82.7	81.2
3280.8	3.04804	85.2	82.6
3281.0	3.04785	87.3	83.0
3281.2	3.04767	88.5	83.3
3281.4	3.04748	88.9	83.6
3281.6	3.04729	89.3	83.7
3281.8	3.04711	89.1	83.6
3282.0	3.04692	88.9	83.2
3282.2	3.04674	87.8	81.9
3282.4	3.04655	85.7	80.0
3282.6	3.04637	81.3	77.6
3282.8	3.04618	75.4	74.9
3283.0	3.04599	70.1	74.1
3283.2	3.04581	73.1	74.8
3283.4	3.04562	[illegible]	76.8
3283.6	3.04544	81.1	78.2
3283.8	3.04525	80.9	79.0
3284.0	3.04507	80.7	80.0
3284.2	3.04488	80.6	81.1
3284.4	3.04470	83.0	82.1
3284.6	3.04451	86.7	83.7
3284.8	3.04433	88.4	84.9
3285.0	3.04414	89.5	85.2
3285.2	3.04395	90.1	85.3
3285.4	3.04377	90.9	85.2
3285.6	3.04358	90.8	85.2
3285.8	3.04340	90.6	85.7
3286.0	3.04321	90.6	86.1
3286.2	3.04303	90.9	86.1
3286.4	3.04284	90.7	85.9
3286.6	3.04266	90.7	85.6
3286.8	3.04247	90.0	85.4
3287.0	3.04229	90.6	84.7
3287.2	3.04210	89.7	83.8
3287.4	3.04192	89.4	83.4
3287.6	3.04173	87.4	82.7
3287.8	3.04155	86.3	81.7
3288.0	3.04136	82.9	80.4
3288.2	3.04118	78.8	78.9
3288.4	3.04099	74.5	77.2
3288.6	3.04081	73.3	76.3
3288.8	3.04062	73.4	76.3
3289.0	3.04044	75.2	77.2
3289.2	3.04025	79.0	78.0
3289.4	3.04007	82.9	78.6
3289.6	3.03988	85.3	78.9
3289.8	3.03970	86.0	79.3
3290.0	3.03951	86.4	78.9
3290.2	3.03933	85.9	78.1
3290.4	3.03914	83.9	77.8
3290.6	3.03896	81.8	75.3
3290.8	3.03877	78.0	72.7
3291.0	3.03859	71.8	70.3
3291.2	3.03841	63.6	68.4
3291.4	3.03822	59.8	67.6
3291.6	3.03804	64.6	67.9
3291.8	3.03785	70.3	69.5
3292.0	3.03767	72.5	70.5
3292.2	3.03748	71.9	71.1
3292.4	3.03730	69.6	71.4
3292.6	3.03711	67.1	71.5
3292.8	3.03693	66.3	71.7
3293.0	3.03674	68.9	72.5
3293.2	3.03656	73.0	74.4
3293.4	3.03638	78.0	76.5
3293.6	3.03619	81.1	78.0
3293.8	3.03601	82.5	79.7
3294.0	3.03582	82.9	81.1
3294.2	3.03564	83.2	81.3
3294.4	3.03545	84.7	81.7
3294.6	3.03527	86.6	82.3
3294.8	3.03509	86.1	83.3
3295.0	3.03490	88.8	83.8
3295.2	3.03472	89.2	84.2
3295.4	3.03453	89.8	84.3
3295.6	3.03435	90.1	84.4
3295.8	3.03416	89.8	84.3
3296.0	3.03398	88.9	83.7
3296.2	3.03380	87.7	82.9
3296.4	3.03361	86.4	82.0
3296.6	3.03343	84.1	81.0
3296.8	3.03324	82.1	80.2
3297.0	3.03306	79.2	79.5
3297.2	3.03288	76.2	78.6
3297.4	3.03269	73.7	78.0
3297.6	3.03251	73.5	77.8
3297.8	3.03232	74.7	78.2
3298.0	3.03214	77.3	79.7
3298.2	3.03196	80.7	81.4
3298.4	3.03177	83.6	82.7
3298.6	3.03159	86.6	83.7
3298.8	3.03141	88.6	84.5
3299.0	3.03122	90.1	85.3
3299.2	3.03104	90.4	86.0
3299.4	3.03085	90.8	86.7
3299.6	3.03067	90.7	86.7
3299.8	3.03049	89.3	86.8
3300.0	3.03030	89.0	87.2
3300.2	3.03012	88.3	87.0
3300.4	3.02994	88.0	87.1
3300.6	3.02975	89.5	87.3
3300.8	3.02957	90.8	87.7
3301.0	3.02939	91.9	88.1
3301.2	3.02920	91.8	88.4
3301.4	3.02902	92.3	88.6
3301.6	3.02883	92.7	88.7
3301.8	3.02865	93.1	88.8

Sam. No.		30	31
p(atm)		8.42×10^{-3}	8.42×10^{-3}
P_e(atm)		5.03×10^{0}	1.003×10^{1}
u(gm/cm²)		2.05×10^{-2}	2.05×10^{-2}
ν (cm^{-1})	λ (micron)	T × 100	T × 100
3302.0	3.02847	93.0	88.5
3302.2	3.02828	92.1	88.3
3302.4	3.02810	92.2	88.5
3302.6	3.02792	91.3	87.9
3302.8	3.02773	90.2	87.1
3303.0	3.02755	88.5	87.1
3303.2	3.02737	87.6	87.2
3303.4	3.02718	87.4	87.5
3303.6	3.02700	88.3	87.9
3303.8	3.02682	89.8	88.2
3304.0	3.02663	91.3	88.5
3304.2	3.02645	91.8	89.2
3304.4	3.02627	92.3	89.2
3304.6	3.02608	92.6	88.7
3304.8	3.02590	92.4	88.7
3305.0	3.02572	92.7	88.6
3305.2	3.02554	92.6	88.5
3305.4	3.02535	92.7	88.8
3305.6	3.02517	92.1	88.9
3305.8	3.02499	92.6	88.8
3306.0	3.02480	91.9	88.1
3306.2	3.02462	91.4	87.4
3306.4	3.02444	91.2	86.8
3306.6	3.02425	90.9	85.6
3306.8	3.02407	90.2	84.6
3307.0	3.02389	89.0	84.3
3307.2	3.02371	86.9	[illegible]
3307.4	3.02352	85.0	80.1
3307.6	3.02334	81.8	77.7
3307.8	3.02316	77.4	74.7
3308.0	3.02297	72.2	71.6
3308.2	3.02279	66.1	68.3
3308.4	3.02261	59.7	65.7
3308.6	3.02243	55.4	63.7
3308.8	3.02224	51.7	62.9
3309.0	3.02206	51.8	63.4
3309.2	3.02188	57.5	64.7
3309.4	3.02170	66.9	67.7
3309.6	3.02151	73.9	70.0
3309.8	3.02133	77.2	71.6
3310.0	3.02115	77.3	72.2
3310.2	3.02097	75.0	72.0
3310.4	3.02078	69.3	71.5
3310.6	3.02060	67.9	72.0
3310.8	3.02042	72.9	73.7
3311.0	3.02024	79.1	76.2
3311.2	3.02005	82.2	77.6
3311.4	3.01987	83.7	78.4
3311.6	3.01969	82.8	78.8
3311.8	3.01951	81.1	78.6
3312.0	3.01932	79.2	77.8
3312.2	3.01914	77.9	76.8
3312.4	3.01896	78.1	76.2
3312.6	3.01878	77.3	75.8
3312.8	3.01859	74.7	75.5
3313.0	3.01841	70.9	74.9
3313.2	3.01823	67.2	74.7
3313.4	3.01805	65.6	74.8
3313.6	3.01787	68.7	75.8
3313.8	3.01768	74.3	77.4
3314.0	3.01750	79.0	79.3
3314.2	3.01732	83.0	80.6
3314.4	3.01714	85.1	82.0
3314.6	3.01696	86.7	83.4
3314.8	3.01677	87.9	84.4
3315.0	3.01659	88.6	85.2
3315.2	3.01641	89.7	86.0
3315.4	3.01623	90.0	86.7
3315.6	3.01605	90.4	87.3
3315.8	3.01586	90.8	87.5
3316.0	3.01568	91.2	87.0
3316.2	3.01550	91.6	87.3
3316.4	3.01532	91.1	87.3
3316.6	3.01514	89.8	86.7
3316.8	3.01495	89.4	86.0
3317.0	3.01477	88.0	85.6
3317.2	3.01459	86.0	85.5
3317.4	3.01441	86.3	86.2
3317.6	3.01423	87.4	86.7
3317.8	3.01405	88.5	86.9
3318.0	3.01386	89.1	86.6
3318.2	3.01368	88.6	86.8
3318.4	3.01350	88.8	87.8
3318.6	3.01332	89.2	88.1
3318.8	3.01314	89.6	88.3
3319.0	3.01296	90.6	88.5
3319.2	3.01277	91.2	88.6
3319.4	3.01259	92.1	88.7
3319.6	3.01241	91.8	88.9
3319.8	3.01223	92.1	88.7
3320.0	3.01205	92.1	88.9
3320.2	3.01187	91.6	88.5
3320.4	3.01169	91.1	88.5
3320.6	3.01150	91.2	88.6
3320.8	3.01132	91.9	89.0
3321.0	3.01114	91.6	88.9
3321.2	3.01096	91.4	88.7
3321.4	3.01078	92.0	88.2
3321.6	3.01060	91.8	88.4
3321.8	3.01042	90.9	88.7
3322.0	3.01023	90.3	87.8
3322.2	3.01005	89.5	87.0
3322.4	3.00987	88.7	86.1
3322.6	3.00969	86.8	85.8
3322.8	3.00951	85.4	85.2
3323.0	3.00933	83.9	84.5
3323.2	3.00915	84.1	84.4
3323.4	3.00897	85.1	84.1
3323.6	3.00879	85.9	83.7
3323.8	3.00860	86.1	82.6
3324.0	3.00842	85.2	81.0
3324.2	3.00824	82.0	78.8
3324.4	3.00806	76.4	77.3
3324.6	3.00788	73.9	76.5
3324.8	3.00770	76.0	77.7
3325.0	3.00752	80.4	79.1
3325.2	3.00734	84.3	80.5
3325.4	3.00716	85.3	80.8
3325.6	3.00698	84.0	80.7
3325.8	3.00680	83.0	80.0

Sam. No.		30	31
p(atm)		8.42×10^{-3}	8.42×10^{-3}
P_e(atm)		5.03×10^{0}	1.003×10^{1}
u(gm/cm²)		2.05×10^{-2}	2.05×10^{-2}
ν (cm^{-1})	λ (micron)	T × 100	T × 100
3326.0	3.00661	90.5	79.4
3326.2	3.00643	78.1	79.0
3326.4	3.00625	76.2	78.8
3326.6	3.00607	76.2	78.9
3326.8	3.00589	77.8	79.2
3327.0	3.00571	78.4	79.6
3327.2	3.00553	78.4	79.7
3327.4	3.00535	77.6	79.7
3327.6	3.00517	77.6	80.3
3327.8	3.00499	80.2	81.4
3328.0	3.00481	83.5	83.0
3328.2	3.00463	86.4	84.0
3328.4	3.00445	87.9	85.1
3328.6	3.00427	88.5	86.2
3328.8	3.00409	89.1	85.9
3329.0	3.00391	88.4	85.1
3329.2	3.00372	87.7	85.2
3329.4	3.00354	86.4	[illegible]
3329.6	3.00336	86.0	86.1
3329.8	3.00318	86.7	86.5
3330.0	3.00300	87.8	87.1
3330.2	3.00282	89.2	88.1
3330.4	3.00264	90.3	88.2
3330.6	3.00246	91.0	88.3
3330.8	3.00228	91.4	88.7
3331.0	3.00210	91.6	88.9
3331.2	3.00192	91.7	88.9
3331.4	3.00174	91.4	88.6
3331.6	3.00156	91.4	88.6
3331.8	3.00138	91.7	88.8
3332.0	3.00120	91.6	88.9
3332.2	3.00102	91.3	88.4
3332.4	3.00084	90.4	87.7
3332.6	3.00066	90.5	87.3
3332.8	3.00048	90.4	87.1
3333.0	3.00030	89.8	87.0
3333.2	3.00012	89.8	86.3
3333.4	2.99994	88.4	84.8
3333.6	2.99976	87.3	82.8
3333.8	2.99958	85.6	81.3
3334.0	2.99940	83.2	79.6
3334.2	2.99922	77.9	77.6
3334.4	2.99904	72.1	75.3
3334.6	2.99886	66.2	73.9
3334.8	2.99868	65.7	73.7
3335.0	2.99850	70.4	74.7
3335.2	2.99832	76.8	75.4
3335.4	2.99814	79.4	75.6
3335.6	2.99796	81.2	75.6
3335.8	2.99778	80.2	74.2
3336.0	2.99760	77.0	71.5
3336.2	2.99742	71.4	66.3
3336.4	2.99724	60.7	61.2
3336.6	2.99706	48.5	57.6
3336.8	2.99688	41.9	56.9
3337.0	2.99670	48.5	61.1
3337.2	2.99652	62.1	66.4
3337.4	2.99634	72.0	71.6
3337.6	2.99616	79.3	75.7
3337.8	2.99599	83.0	79.0
3338.0	2.99581	85.3	81.0
3338.2	2.99563	87.0	82.6
3338.4	2.99545	87.8	83.9
3338.6	2.99527	88.1	84.5
3338.8	2.99509	87.8	84.9
3339.0	2.99491	87.9	85.2
3339.2	2.99473	88.3	85.7
3339.4	2.99455	88.5	86.0
3339.6	2.99437	88.0	85.4
3339.8	2.99419	88.1	83.9
3340.0	2.99401	85.0	82.4
3340.2	2.99383	81.6	82.2
3340.4	2.99365	82.5	83.0
3340.6	2.99347	85.9	84.4
3340.8	2.99330	88.4	85.6
3341.0	2.99312	89.4	86.5
3341.2	2.99294	89.2	87.0
3341.4	2.99276	89.0	86.9
3341.6	2.99258	89.1	86.9
3341.8	2.99240	88.9	87.1
3342.0	2.99222	88.0	87.0
3342.2	2.99204	87.5	86.9
3342.4	2.99186	87.4	86.9
3342.6	2.99168	88.3	87.3
3342.8	2.99150	89.5	87.7
3343.0	2.99133	90.2	87.9
3343.2	2.99115	90.7	88.1
3343.4	2.99097	91.5	88.4
3343.6	2.99079	91.6	89.4
3343.8	2.99061	91.9	90.0
3344.0	2.99043	92.1	90.3
3344.2	2.99025	92.1	89.8
3344.4	2.99007	92.2	89.6
3344.6	2.98989	92.4	89.5
3344.8	2.98972	92.1	89.4
3345.0	2.98954	92.2	89.4
3345.2	2.98936	92.1	89.6
3345.4	2.98918	91.8	89.8
3345.6	2.98900	91.4	89.8
3345.8	2.98882	91.2	89.5
3346.0	2.98864	90.9	89.4
3346.2	2.98846	90.5	89.2
3346.4	2.98829	91.1	89.1
3346.6	2.98811	91.5	89.1
3346.8	2.98793	91.6	89.2
3347.0	2.98775	91.7	89.0
3347.2	2.98757	91.6	89.1
3347.4	2.98739	91.3	89.2
3347.6	2.98721	91.6	89.3
3347.8	2.98704	90.9	89.2
3348.0	2.98686	90.7	88.9
3348.2	2.98668	90.5	89.0
3348.4	2.98650	90.3	89.1
3348.6	2.98632	90.4	89.1
3348.8	2.98614	91.1	89.2
3349.0	2.98597	90.8	89.5
3349.2	2.98579	91.2	89.3
3349.4	2.98561	91.4	89.1
3349.6	2.98543	91.0	88.9
3349.8	2.98525	91.2	88.4

Table 5-2 (Cont'd)

Sam. No		10	11
p (atm)		8.42×10^{-1}	8.42×10^{-1}
P_e (atm)		5.03×10^{0}	1.003×10^{1}
u (gm/cm²)		2.05×10^{-2}	2.05×10^{-2}
ν (cm⁻¹)	λ (micron)	T × 100	T × 100
3350.0	2.98507	90.3	87.4
3350.2	2.98490	90.6	87.1
3350.4	2.98472	90.7	87.2
3350.6	2.98454	90.6	87.3
3350.8	2.98436	89.6	87.0
3351.0	2.98418	89.4	86.9
3351.2	2.98401	88.3	86.8
3351.4	2.98383	88.3	86.4
3351.6	2.98365	89.0	86.6
3351.8	2.98347	89.9	86.7
3352.0	2.98329	90.1	86.4
3352.2	2.98312	90.6	86.2
3352.4	2.98294	90.3	86.1
3352.6	2.98276	89.6	85.6
3352.8	2.98258	88.6	84.9
3353.0	2.98240	87.2	84.9
3353.2	2.98223	86.3	84.3
3353.4	2.98205	85.3	83.8
3353.6	2.98187	85.0	83.2
3353.8	2.98169	84.4	82.5
3354.0	2.98151	84.7	81.8
3354.2	2.98134	84.6	81.1
3354.4	2.98116	84.6	80.1
3354.6	2.98098	83.5	78.6
3354.8	2.98080	81.5	75.8
3355.0	2.98063	77.5	71.2
3355.2	2.98045	71.1	71.3
3355.4	2.98027	66.7	70.4
3355.6	2.98009	62.9	70.0
3355.8	2.97992	63.6	70.5
3356.0	2.97974	68.2	71.4
3356.2	2.97956	71.8	72.5
3356.4	2.97938	74.2	73.0
3356.6	2.97921	74.2	73.6
3356.8	2.97903	77.4	74.2
3357.0	2.97885	71.6	75.3
3357.2	2.97867	73.5	76.3
3357.4	2.97850	77.0	77.1
3357.6	2.97832	80.8	78.3
3357.8	2.97814	83.0	79.5
3358.0	2.97796	84.9	83.4
3358.2	2.97779	85.5	80.2
3358.4	2.97761	85.7	79.5
3358.6	2.97743	84.7	79.4
3358.8	2.97725	84.1	78.9
3359.0	2.97708	81.7	78.1
3359.2	2.97690	78.6	76.9
3359.4	2.97672	75.3	76.0
3359.6	2.97654	73.2	75.5
3359.8	2.97637	73.6	74.8
3360.0	2.97619	75.0	74.3
3360.2	2.97601	76.4	74.5
3360.4	2.97584	77.1	74.5
3360.6	2.97566	77.7	74.2
3360.8	2.97548	77.6	72.6
3361.0	2.97530	75.5	71.1
3361.2	2.97513	71.2	69.6
3361.4	2.97495	65.1	67.8
3361.6	2.97477	60.2	67.2
3361.8	2.97460	59.6	67.6
3362.0	2.97442	62.7	68.5
3362.2	2.97424	66.0	69.5
3362.4	2.97407	69.8	70.4
3362.6	2.97389	72.8	71.6
3362.8	2.97371	75.3	72.6
3363.0	2.97354	77.8	73.2
3363.2	2.97336	79.0	73.2
3363.4	2.97318	74.7	72.7
3363.6	2.97301	77.4	71.8
3363.8	2.97283	74.5	70.6
3364.0	2.97265	69.5	68.6
3364.2	2.97247	65.6	67.9
3364.4	2.97230	63.7	66.8
3364.6	2.97212	63.7	66.2
3364.8	2.97194	65.1	65.7
3365.0	2.97177	65.1	65.0
3365.2	2.97159	63.1	63.5
3365.4	2.97141	58.7	62.4
3365.6	2.97124	54.3	61.7
3365.8	2.97106	51.0	61.4
3366.0	2.97089	53.7	62.7
3366.2	2.97071	59.2	64.3
3366.4	2.97053	65.0	65.6
3366.6	2.97036	68.6	66.7
3366.8	2.97018	70.8	67.2
3367.0	2.97000	70.4	67.1
3367.2	2.96983	68.2	66.7
3367.4	2.96965	63.3	66.3
3367.6	2.96947	58.8	65.6
3367.8	2.96930	59.1	64.9
3368.0	2.96912	65.5	68.5
3368.2	2.96894	71.1	70.7
3368.4	2.96877	75.1	73.5
3368.6	2.96859	76.2	74.7
3368.8	2.96842	76.6	76.0
3369.0	2.96824	77.0	77.6
3369.2	2.96806	79.4	79.0
3369.4	2.96789	81.5	80.1
3369.6	2.96771	83.0	80.3
3369.8	2.96754	84.5	82.0
3370.0	2.96736	86.2	83.7
3370.2	2.96719	88.0	85.0
3370.4	2.96701	89.2	85.5
3370.6	2.96683	88.8	85.7
3370.8	2.96665	88.7	85.8
3371.0	2.96648	89.1	86.1
3371.2	2.96630	89.7	86.7
3371.4	2.96613	90.2	86.6
3371.6	2.96595	90.9	87.1
3371.8	2.96577	91.8	87.7
3372.0	2.96560	91.4	88.3
3372.2	2.96542	92.5	88.1
3372.4	2.96525	92.4	88.6
3372.6	2.96507	92.3	88.8
3372.8	2.96490	91.4	88.9
3373.0	2.96472	92.2	89.2
3373.2	2.96454	92.3	89.1
3373.4	2.96437	91.8	89.1
3373.6	2.96419	91.2	88.7
3373.8	2.96402	90.9	88.2

Sam. No		10	11
p (atm)		8.42×10^{-1}	8.42×10^{-1}
P_e (atm)		5.03×10^{0}	1.003×10^{1}
u (gm/cm²)		2.05×10^{-2}	2.05×10^{-2}
ν (cm⁻¹)	λ (micron)	T × 100	T × 100
3374.0	2.96384	93.5	88.3
3374.2	2.96367	90.0	88.6
3374.4	2.96349	89.2	88.9
3374.6	2.96331	88.6	89.8
3374.8	2.96314	88.3	88.7
3375.0	2.96296	89.1	88.7
3375.2	2.96279	88.9	88.8
3375.4	2.96261	89.9	88.9
3375.6	2.96244	84.7	89.2
3375.8	2.96226	90.3	83.5
3376.0	2.96209	91.0	89.6
3376.2	2.96191	91.6	89.6
3376.4	2.96173	91.6	89.6
3376.6	2.96156	91.6	89.2
3376.8	2.96138	91.1	88.8
3377.0	2.96121	90.6	88.3
3377.2	2.96103	90.3	88.2
3377.4	2.96086	88.5	87.6
3377.6	2.96068	87.3	86.6
3377.8	2.96051	87.2	85.7
3378.0	2.96033	85.9	85.3
3378.2	2.96016	86.2	86.0
3378.4	2.95998	86.9	86.7
3378.6	2.95981	88.5	87.3
3378.8	2.95963	88.2	87.6
3379.0	2.95946	88.1	87.7
3379.2	2.95928	88.6	87.7
3379.4	2.95911	88.9	87.4
3379.6	2.95893	89.2	87.3
3379.8	2.95875	89.7	87.7
3380.0	2.95858	89.0	87.6
3380.2	2.95840	88.1	87.4
3380.4	2.95823	86.7	87.4
3380.6	2.95805	87.3	87.3
3380.8	2.95788	88.2	87.1
3381.0	2.95770	89.3	87.1
3381.2	2.95753	90.0	87.1
3381.4	2.95735	90.0	87.0
3381.6	2.95718	88.8	86.9
3381.8	2.95701	88.1	86.5
3382.0	2.95683	89.3	85.4
3382.2	2.95666	88.2	84.5
3382.4	2.95648	86.2	83.3
3382.6	2.95631	84.2	81.6
3382.8	2.95613	81.4	79.9
3383.0	2.95596	78.5	74.3
3383.2	2.95578	77.1	77.2
3383.4	2.95561	77.2	76.5
3383.6	2.95543	76.5	73.8
3383.8	2.95526	75.7	71.9
3384.0	2.95508	68.2	70.0
3384.2	2.95491	62.2	68.2
3384.4	2.95473	58.1	67.4
3384.6	2.95456	56.5	67.3
3384.8	2.95438	63.6	68.0
3385.0	2.95421	67.4	68.8
3385.2	2.95404	67.8	69.5
3385.4	2.95386	68.2	70.1
3385.6	2.95369	68.2	70.8
3385.8	2.95351	65.0	71.9
3386.0	2.95334	67.0	73.0
3386.2	2.95316	72.6	75.1
3386.4	2.95299	77.2	76.2
3386.6	2.95281	80.0	78.2
3386.8	2.95264	81.2	81.3
3387.0	2.95247	85.6	82.3
3387.2	2.95229	86.5	83.1
3387.4	2.95212	87.3	83.4
3387.6	2.95194	88.3	[illegible]
3387.8	2.95177	88.2	84.4
3388.0	[illegible]	[illegible]	[illegible]
3388.2	[illegible]	[illegible]	[illegible]
3388.4	[illegible]	[illegible]	[illegible]
3388.6	[illegible]	[illegible]	[illegible]
3388.8	[illegible]	[illegible]	[illegible]
3389.0	[illegible]	[illegible]	[illegible]
3389.2	[illegible]	[illegible]	[illegible]
3389.4	[illegible]	[illegible]	[illegible]
3389.6	[illegible]	[illegible]	[illegible]
3389.8	[illegible]	[illegible]	[illegible]
3390.0	[illegible]	[illegible]	[illegible]
3390.2	[illegible]	[illegible]	[illegible]
3390.4	[illegible]	[illegible]	[illegible]
3390.6	[illegible]	[illegible]	[illegible]
3390.8	[illegible]	[illegible]	[illegible]
3391.0	[illegible]	[illegible]	[illegible]
3391.2	[illegible]	[illegible]	[illegible]
3391.4	[illegible]	[illegible]	[illegible]
3391.6	[illegible]	[illegible]	[illegible]
3391.8	[illegible]	[illegible]	[illegible]
3392.0	[illegible]	[illegible]	[illegible]
3392.2	[illegible]	[illegible]	[illegible]
3392.4	[illegible]	[illegible]	[illegible]
3392.6	[illegible]	[illegible]	[illegible]
3392.8	[illegible]	[illegible]	[illegible]
3393.0	[illegible]	[illegible]	[illegible]
3393.2	[illegible]	[illegible]	[illegible]
3393.4	[illegible]	[illegible]	[illegible]
3393.6	[illegible]	[illegible]	[illegible]
3393.8	[illegible]	[illegible]	[illegible]
3394.0	[illegible]	[illegible]	[illegible]
3394.2	[illegible]	[illegible]	[illegible]
3394.4	[illegible]	[illegible]	[illegible]
3394.6	[illegible]	[illegible]	[illegible]
3394.8	[illegible]	[illegible]	[illegible]
3395.0	[illegible]	[illegible]	[illegible]
3395.2	[illegible]	[illegible]	[illegible]
3395.4	[illegible]	[illegible]	[illegible]
3395.6	[illegible]	[illegible]	[illegible]
3395.8	[illegible]	[illegible]	[illegible]
3396.0	[illegible]	[illegible]	[illegible]
3396.2	[illegible]	[illegible]	[illegible]
3396.4	[illegible]	[illegible]	[illegible]
3396.6	[illegible]	[illegible]	[illegible]
3396.8	[illegible]	[illegible]	[illegible]
3397.0	[illegible]	[illegible]	[illegible]
3397.2	[illegible]	[illegible]	[illegible]
3397.4	[illegible]	[illegible]	[illegible]
3397.6	[illegible]	[illegible]	[illegible]
3397.8	[illegible]	[illegible]	[illegible]

Sam. No		10	11
p (atm)		8.42×10^{-1}	8.42×10^{-1}
P_e (atm)		5.03×10^{0}	1.003×10^{1}
u (gm/cm²)		2.05×10^{-2}	2.05×10^{-2}
ν (cm⁻¹)	λ (micron)	T × 100	T × 100
3398.0	2.94291	68.3	68.9
3398.2	2.94273	74.3	72.3
3398.4	2.94256	74.0	75.3
3398.6	2.94239	80.5	77.1
3398.8	2.94221	81.9	78.7
3399.0	2.94204	83.3	80.0
3399.2	2.94187	[illegible]	81.2
3399.4	2.94170	84.7	82.0
3399.6	2.94152	86.2	82.3
3399.8	2.94135	86.3	82.5
3400.0	2.94118	86.3	82.5
3400.2	2.94100	85.7	81.5
3400.4	2.94083	85.0	79.8
3400.6	2.94066	82.6	77.7
3400.8	2.94048	77.3	75.1
3401.0	2.94031	72.8	[illegible]
3401.2	2.94014	75.3	76.6
3401.4	2.93997	77.7	78.6
3401.6	2.93979	80.0	80.3
3401.8	2.93962	81.4	80.9
3402.0	2.93945	81.7	81.3
3402.2	2.93927	81.8	81.5
3402.4	2.93910	82.5	81.6
3402.6	2.93893	82.4	80.9
3402.8	2.93876	81.5	79.9
3403.0	2.93858	76.6	79.4
3403.2	2.93841	75.4	79.1
3403.4	2.93824	72.6	78.6
3403.6	2.93807	72.0	78.7
3403.8	2.93789	74.3	79.2
3404.0	2.93772	78.0	80.2
3404.2	2.93755	81.7	81.4
3404.4	2.93738	84.2	82.3
3404.6	2.93720	85.9	84.1
3404.8	2.93703	87.3	85.1
3405.0	2.93686	88.6	85.7
3405.2	2.93669	89.1	86.3
3405.4	2.93651	88.4	86.9
3405.6	2.93634	88.4	87.3
3405.8	2.93617	88.3	87.9
3406.0	2.93600	89.3	87.6
3406.2	2.93582	88.5	87.5
3406.4	2.93565	88.4	87.3
3406.6	2.93548	89.3	87.3
3406.8	2.93531	88.3	87.9
3407.0	2.93513	88.6	[illegible]
3407.2	2.93496	88.2	88.1
3407.4	2.93479	88.8	88.4
3407.6	2.93462	90.0	88.4
3407.8	2.93444	90.0	88.2
3408.0	2.93427	88.3	87.7
3408.2	2.93410	88.4	87.6
3408.4	2.93393	88.1	87.8
3408.6	2.93376	87.1	87.7
3408.8	2.93358	88.4	87.4
3409.0	2.93341	86.3	86.0
3409.2	2.93324	87.4	86.1
3409.4	2.93307	88.5	86.2
3409.6	2.93290	88.3	86.2
3409.8	2.93272	88.4	86.1
3410.0	[illegible]	[illegible]	[illegible]
3410.2	[illegible]	[illegible]	[illegible]
3410.4	[illegible]	[illegible]	[illegible]
3410.6	[illegible]	[illegible]	[illegible]
3410.8	[illegible]	[illegible]	[illegible]
3411.0	[illegible]	[illegible]	[illegible]
3411.2	[illegible]	[illegible]	[illegible]
3411.4	[illegible]	[illegible]	[illegible]
3411.6	[illegible]	[illegible]	[illegible]
3411.8	[illegible]	[illegible]	[illegible]
3412.0	[illegible]	[illegible]	[illegible]
3412.2	[illegible]	[illegible]	[illegible]
3412.4	[illegible]	[illegible]	[illegible]
3412.6	[illegible]	[illegible]	[illegible]
3412.8	[illegible]	[illegible]	[illegible]
3413.0	[illegible]	[illegible]	[illegible]
3413.2	[illegible]	[illegible]	[illegible]
3413.4	[illegible]	[illegible]	[illegible]
3413.6	[illegible]	[illegible]	[illegible]
3413.8	[illegible]	[illegible]	[illegible]
3414.0	[illegible]	[illegible]	[illegible]
3414.2	[illegible]	[illegible]	[illegible]
3414.4	[illegible]	[illegible]	[illegible]
3414.6	[illegible]	[illegible]	[illegible]
3414.8	[illegible]	[illegible]	[illegible]
3415.0	[illegible]	[illegible]	[illegible]
3415.2	[illegible]	[illegible]	[illegible]
3415.4	[illegible]	[illegible]	[illegible]
3415.6	[illegible]	[illegible]	[illegible]
3415.8	[illegible]	[illegible]	[illegible]
3416.0	[illegible]	[illegible]	[illegible]
3416.2	[illegible]	[illegible]	[illegible]
3416.4	[illegible]	[illegible]	[illegible]
3416.6	[illegible]	[illegible]	[illegible]
3416.8	[illegible]	[illegible]	[illegible]
3417.0	[illegible]	[illegible]	[illegible]
3417.2	[illegible]	[illegible]	[illegible]
3417.4	[illegible]	[illegible]	[illegible]
3417.6	[illegible]	[illegible]	[illegible]
3417.8	[illegible]	[illegible]	[illegible]
3418.0	[illegible]	[illegible]	[illegible]
3418.2	[illegible]	[illegible]	[illegible]
3418.4	[illegible]	[illegible]	[illegible]
3418.6	[illegible]	[illegible]	[illegible]
3418.8	[illegible]	[illegible]	[illegible]
3419.0	[illegible]	[illegible]	[illegible]
3419.2	[illegible]	[illegible]	[illegible]
3419.4	[illegible]	[illegible]	[illegible]
3419.6	[illegible]	[illegible]	[illegible]
3419.8	[illegible]	[illegible]	[illegible]
3420.0	[illegible]	[illegible]	[illegible]
3420.2	[illegible]	[illegible]	[illegible]
3420.4	[illegible]	[illegible]	[illegible]
3420.6	[illegible]	[illegible]	[illegible]
3420.8	[illegible]	[illegible]	[illegible]
3421.0	[illegible]	[illegible]	[illegible]
3421.2	[illegible]	[illegible]	[illegible]
3421.4	[illegible]	[illegible]	[illegible]
3421.6	[illegible]	[illegible]	[illegible]
3421.8	[illegible]	[illegible]	[illegible]

Sam. No		10	11
p (atm)		8.42×10^{-1}	8.42×10^{-1}
P_e (atm)		5.03×10^{0}	1.003×10^{1}
u (gm/cm²)		2.05×10^{-2}	2.05×10^{-2}
ν (cm⁻¹)	λ (micron)	T × 100	T × 100
3422.0	2.92227	61.2	67.7
3422.2	2.92210	62.5	69.2
3422.4	2.92193	66.2	[illegible]
3422.6	2.92176	52.1	[illegible]
3422.8	2.92158	58.0	[illegible]
3423.0	2.92141	57.5	53.1
3423.2	2.92124	52.3	54.7
3423.4	2.92107	59.7	59.6
3423.6	2.92090	67.2	65.1
3423.8	2.92073	75.0	73.6
3424.0	2.92056	76.5	73.2
3424.2	2.92039	78.1	75.5
3424.4	2.92022	81.4	77.5
3424.6	2.92005	83.4	79.0
3424.8	2.91988	[illegible]	[illegible]
3425.0	2.91971	85.3	80.6
3425.2	2.91954	86.0	81.2
3425.4	2.91937	86.5	81.9
3425.6	2.91920	86.5	81.8
3425.8	2.91903	86.7	81.4
3426.0	2.91886	86.6	82.0
3426.2	2.91869	85.7	81.6
3426.4	2.91852	85.5	83.9
3426.6	2.91834	84.6	80.1
3426.8	2.91817	83.9	79.3
3427.0	2.91800	82.8	78.4
3427.2	2.91783	80.4	77.8
3427.4	2.91766	77.8	77.2
3427.6	2.91749	73.5	76.3
3427.8	2.91732	71.7	76.4
3428.0	2.91715	71.1	76.5
3428.2	2.91698	74.6	77.1
3428.4	2.91681	78.5	78.0
3428.6	2.91664	81.3	79.3
3428.8	2.91647	83.5	79.9
3429.0	2.91630	84.3	80.1
3429.2	2.91613	84.3	80.3
3429.4	2.91596	84.3	80.1
3429.6	2.91579	84.2	79.4
3429.8	2.91562	83.1	79.5
3430.0	2.91545	82.4	77.2
3430.2	2.91528	80.0	[illegible]
3430.4	2.91511	77.2	76.7
3430.6	2.91494	75.3	73.4
3430.8	2.91477	69.5	72.6
3431.0	2.91460	66.3	71.7
3431.2	2.91443	70.1	72.1
3431.4	2.91426	68.8	72.7
3431.6	2.91409	73.3	74.5
3431.8	2.91392	74.3	75.5
3432.0	[illegible]	[illegible]	[illegible]
3432.2	[illegible]	[illegible]	[illegible]
3432.4	[illegible]	[illegible]	[illegible]
3432.6	[illegible]	[illegible]	[illegible]
3432.8	[illegible]	[illegible]	[illegible]
3433.0	[illegible]	[illegible]	[illegible]
3433.2	[illegible]	[illegible]	[illegible]
3433.4	[illegible]	[illegible]	[illegible]
3433.6	[illegible]	[illegible]	[illegible]
3433.8	[illegible]	[illegible]	[illegible]
3434.0	[illegible]	[illegible]	[illegible]
3434.2	[illegible]	[illegible]	[illegible]
3434.4	[illegible]	[illegible]	[illegible]
3434.6	[illegible]	[illegible]	[illegible]
3434.8	[illegible]	[illegible]	[illegible]
3435.0	[illegible]	[illegible]	[illegible]
3435.2	[illegible]	[illegible]	[illegible]
3435.4	[illegible]	[illegible]	[illegible]
3435.6	[illegible]	[illegible]	[illegible]
3435.8	[illegible]	[illegible]	[illegible]
3436.0	[illegible]	[illegible]	[illegible]
3436.2	[illegible]	[illegible]	[illegible]
3436.4	[illegible]	[illegible]	[illegible]
3436.6	[illegible]	[illegible]	[illegible]
3436.8	[illegible]	[illegible]	[illegible]
3437.0	[illegible]	[illegible]	[illegible]
3437.2	[illegible]	[illegible]	[illegible]
3437.4	[illegible]	[illegible]	[illegible]
3437.6	[illegible]	[illegible]	[illegible]
3437.8	[illegible]	[illegible]	[illegible]
3438.0	[illegible]	[illegible]	[illegible]
3438.2	[illegible]	[illegible]	[illegible]
3438.4	[illegible]	[illegible]	[illegible]
3438.6	[illegible]	[illegible]	[illegible]
3438.8	[illegible]	[illegible]	[illegible]
3439.0	[illegible]	[illegible]	[illegible]
3439.2	[illegible]	[illegible]	[illegible]
3439.4	[illegible]	[illegible]	[illegible]
3439.6	[illegible]	[illegible]	[illegible]
3439.8	[illegible]	[illegible]	[illegible]
3440.0	[illegible]	[illegible]	[illegible]
3440.2	[illegible]	[illegible]	[illegible]
3440.4	[illegible]	[illegible]	[illegible]
3440.6	[illegible]	[illegible]	[illegible]
3440.8	[illegible]	[illegible]	[illegible]
3441.0	[illegible]	[illegible]	[illegible]
3441.2	[illegible]	[illegible]	[illegible]
3441.4	[illegible]	[illegible]	[illegible]
3441.6	[illegible]	[illegible]	[illegible]
3441.8	[illegible]	[illegible]	[illegible]
3442.0	[illegible]	[illegible]	[illegible]
3442.2	[illegible]	[illegible]	[illegible]
3442.4	[illegible]	[illegible]	[illegible]
3442.6	[illegible]	[illegible]	[illegible]
3442.8	[illegible]	[illegible]	[illegible]
3443.0	[illegible]	[illegible]	[illegible]
3443.2	[illegible]	[illegible]	[illegible]
3443.4	[illegible]	[illegible]	[illegible]
3443.6	[illegible]	[illegible]	[illegible]
3443.8	[illegible]	[illegible]	[illegible]
3444.0	[illegible]	[illegible]	[illegible]
3444.2	[illegible]	[illegible]	[illegible]
3444.4	[illegible]	[illegible]	[illegible]
3444.6	[illegible]	[illegible]	[illegible]
3444.8	[illegible]	[illegible]	[illegible]
3445.0	[illegible]	[illegible]	[illegible]
3445.2	[illegible]	[illegible]	[illegible]
3445.4	[illegible]	[illegible]	[illegible]
3445.6	[illegible]	[illegible]	[illegible]
3445.8	[illegible]	[illegible]	[illegible]

Sam. No		10	11
p (atm)		8.42×10^{-1}	8.42×10^{-1}
P_e (atm)		5.03×10^{0}	1.003×10^{1}
u (gm/cm²)		2.05×10^{-2}	2.05×10^{-2}
ν (cm⁻¹)	λ (micron)	T × 100	T × 100
3446.0	2.90192	48.9	56.5
3446.2	2.90175	44.4	[illegible]
3446.4	2.90158	36.9	27.1
3446.6	2.90141	27.9	21.6
3446.8	2.90124	18.2	17.4
3447.0	2.90107	10.3	14.3
3447.2	2.90091	6.5	13.0
3447.4	2.90074	5.1	12.4
3447.6	2.90057	6.9	15.1
3447.8	2.90040	11.7	18.7
3448.0	2.90023	19.7	23.4
3448.2	2.90006	28.4	27.4
3448.4	2.89990	35.4	35.6
3448.6	2.89973	42.4	41.1
3448.8	2.89956	49.4	45.1
3449.0	2.89939	56.7	53.4
3449.2	2.89922	62.5	55.2
3449.4	2.89905	67.6	[illegible]
3449.6	[illegible]	[illegible]	[illegible]
3449.8	2.89872	74.3	66.2
3450.0	2.89855	76.5	69.4
3450.2	2.89838	78.1	70.9
3450.4	2.89821	79.7	72.4
3450.6	2.89805	81.3	73.6
3450.8	[illegible]	82.3	[illegible]
3451.0	[illegible]	83.7	76.2
3451.2	2.89754	[illegible]	77.2
3451.4	2.89737	84.5	78.2
3451.6	2.89721	[illegible]	[illegible]
3451.8	2.89704	85.2	79.5
3452.0	2.89687	85.5	79.4
3452.2	2.89670	85.4	[illegible]
3452.4	2.89654	85.7	80.2
3452.6	2.89637	85.8	80.5
3452.8	2.89620	85.6	80.5
3453.0	2.89603	86.6	80.6
3453.2	2.89586	86.1	80.7
3453.4	2.89570	86.6	80.4
3453.6	2.89553	86.2	81.1
3453.8	[illegible]	[illegible]	81.5
3454.0	2.89519	86.9	81.6
3454.2	2.89503	87.2	81.5
3454.4	2.89486	86.3	81.7
3454.6	2.89469	86.4	81.5
3454.8	2.89452	85.8	83.1
3455.0	2.89436	85.0	79.3
3455.2	2.89419	83.7	79.2
3455.4	2.89402	82.3	79.3
3455.6	2.89385	79.2	77.2
3455.8	2.89369	[illegible]	[illegible]
3456.0	[illegible]	[illegible]	[illegible]
3456.2	[illegible]	[illegible]	[illegible]
3456.4	[illegible]	[illegible]	[illegible]
3456.6	[illegible]	[illegible]	[illegible]
3456.8	[illegible]	[illegible]	[illegible]
3457.0	[illegible]	[illegible]	[illegible]
3457.2	[illegible]	[illegible]	[illegible]
3457.4	[illegible]	[illegible]	[illegible]
3457.6	[illegible]	[illegible]	[illegible]
3457.8	[illegible]	[illegible]	[illegible]
3458.0	[illegible]	[illegible]	[illegible]
3458.2	[illegible]	[illegible]	[illegible]
3458.4	[illegible]	[illegible]	[illegible]
3458.6	[illegible]	[illegible]	[illegible]
3458.8	[illegible]	[illegible]	[illegible]
3459.0	[illegible]	[illegible]	[illegible]
3459.2	[illegible]	[illegible]	[illegible]
3459.4	[illegible]	[illegible]	[illegible]
3459.6	[illegible]	[illegible]	[illegible]
3459.8	[illegible]	[illegible]	[illegible]
3460.0	[illegible]	[illegible]	[illegible]
3460.2	[illegible]	[illegible]	[illegible]
3460.4	[illegible]	[illegible]	[illegible]
3460.6	[illegible]	[illegible]	[illegible]
3460.8	[illegible]	[illegible]	[illegible]
3461.0	[illegible]	[illegible]	[illegible]
3461.2	[illegible]	[illegible]	[illegible]
3461.4	[illegible]	[illegible]	[illegible]
3461.6	[illegible]	[illegible]	[illegible]
3461.8	[illegible]	[illegible]	[illegible]
3462.0	[illegible]	[illegible]	[illegible]
3462.2	[illegible]	[illegible]	[illegible]
3462.4	[illegible]	[illegible]	[illegible]
3462.6	[illegible]	[illegible]	[illegible]
3462.8	[illegible]	[illegible]	[illegible]
3463.0	[illegible]	[illegible]	[illegible]
3463.2	[illegible]	[illegible]	[illegible]
3463.4	[illegible]	[illegible]	[illegible]
3463.6	[illegible]	[illegible]	[illegible]
3463.8	[illegible]	[illegible]	[illegible]
3464.0	[illegible]	[illegible]	[illegible]
3464.2	[illegible]	[illegible]	[illegible]
3464.4	[illegible]	[illegible]	[illegible]
3464.6	[illegible]	[illegible]	[illegible]
3464.8	[illegible]	[illegible]	[illegible]
3465.0	[illegible]	[illegible]	[illegible]
3465.2	[illegible]	[illegible]	[illegible]
3465.4	[illegible]	[illegible]	[illegible]
3465.6	[illegible]	[illegible]	[illegible]
3465.8	[illegible]	[illegible]	[illegible]
3466.0	[illegible]	[illegible]	[illegible]
3466.2	[illegible]	[illegible]	[illegible]
3466.4	[illegible]	[illegible]	[illegible]
3466.6	[illegible]	[illegible]	[illegible]
3466.8	[illegible]	[illegible]	[illegible]
3467.0	[illegible]	[illegible]	[illegible]
3467.2	[illegible]	[illegible]	[illegible]
3467.4	[illegible]	[illegible]	[illegible]
3467.6	[illegible]	[illegible]	[illegible]
3467.8	[illegible]	[illegible]	[illegible]
3468.0	[illegible]	[illegible]	[illegible]
3468.2	[illegible]	[illegible]	[illegible]
3468.4	[illegible]	[illegible]	[illegible]
3468.6	[illegible]	[illegible]	[illegible]
3468.8	[illegible]	[illegible]	[illegible]
3469.0	[illegible]	[illegible]	[illegible]
3469.2	[illegible]	[illegible]	[illegible]
3469.4	[illegible]	[illegible]	[illegible]
3469.6	[illegible]	[illegible]	[illegible]
3469.8	[illegible]	[illegible]	[illegible]

		T × 100	T × 100
3566.0	2.80426	0.2	0.9
3566.2	2.80411	0.1	0.9
3566.4	2.80395	0.1	1.0
3566.6	2.80379	0.2	1.1
3566.8	2.80363	0.1	1.2
3567.0	2.80348	0.1	1.2
3567.2	2.80332	0.1	1.2
3567.4	2.80316	0.3	1.2
3567.6	2.80300	0.0	1.0
3567.8	2.80285	0.2	0.9
3568.0	2.80269	0.3	0.8
3568.2	2.80253	[illegible]	0.8
3568.4	2.80238	0.4	0.7
3568.6	2.80222	0.1	0.7
3568.8	2.80206	0.1	1.0
3569.0	2.80191	0.2	1.1
3569.2	2.80175	[illegible]	1.2
3569.4	2.80159	2.2	1.3
3569.6	2.80143	4.0	1.6
3569.8	2.80128	4.8	2.4
3570.0	2.80112	5.6	3.2
3570.2	2.80096	5.5	3.5
3570.4	2.80081	4.5	4.0
3570.6	2.80065	4.0	4.8
3570.8	2.80049	[illegible]	5.5
3571.0	2.80034	10.0	6.9
3571.2	2.80018	15.0	8.7
3571.4	2.80002	20.5	10.4
3571.6	2.79987	25.3	12.8
3571.8	2.79971	28.9	14.7
3572.0	2.79955	30.4	15.8
3572.2	2.79940	32.6	15.7
3572.4	2.79924	32.2	16.9
3572.6	2.79908	30.9	17.0
3572.8	2.79893	29.4	17.0
3573.0	2.79877	26.9	16.9
3573.2	2.79861	25.0	16.6
3573.4	2.79846	23.5	16.0
3573.6	2.79830	22.3	15.2
3573.8	2.79814	20.5	14.7
3574.0	2.79799	18.0	14.2
3574.2	2.79783	14.4	13.6
3574.4	2.79767	11.7	13.2
3574.6	2.79752	10.7	13.1
3574.8	2.79736	11.3	13.5
3575.0	2.79720	13.9	14.3
3575.2	2.79705	17.4	15.0
3575.4	2.79689	21.6	15.7
3575.6	2.79673	24.8	15.9
3575.8	2.79658	26.5	15.9
3576.0	2.79642	26.4	15.5
3576.2	2.79626	23.4	14.6
3576.4	2.79611	18.5	13.2
3576.6	2.79595	14.3	12.2
3576.8	2.79580	4.9	11.4
3577.0	2.79564	7.3	11.5
3577.2	2.79548	8.4	11.9
3577.4	2.79533	11.2	12.7
3577.6	2.79517	15.6	13.6
3577.8	2.79501	22.1	14.8
3578.0	2.79486	26.4	15.6
3578.2	2.79470	26.0	15.8
3578.4	2.79455	25.3	15.4
3578.6	2.79439	27.1	14.7
3578.8	2.79423	24.9	13.7
3579.0	2.79408	20.2	12.5
3579.2	2.79392	15.0	12.2
3579.4	2.79376	11.4	9.2
3579.6	2.79361	8.8	6.9
3579.8	2.79345	5.6	6.1
3580.0	2.79330	[illegible]	5.6

Table 5-3 $\int_{\nu_i}^{\nu} A(\nu)\,d\nu$

Sam. No.	10	11
p(atm)	8.42×10^{-7}	8.42×10^{-8}
p_e(atm)	5.01×10^{0}	1.001×10
w(gm/cm²)	2.05×10^{-8}	2.05×10^{-7}
ν (cm⁻¹)	ν'=2990 cm⁻¹	ν'=2990 cm⁻¹
2990.0	0.	0.
2990.5	0.033	0.040
2991.0	0.060	0.077
2991.5	0.095	0.116
2992.0	0.143	0.162
2992.5	0.197	0.215
2993.0	0.251	0.271
2993.5	0.304	0.334
2994.0	0.376	0.408
2994.5	0.485	0.497
2995.0	0.569	0.570
2995.5	0.633	0.631
2996.0	0.682	0.676
2996.5	0.711	0.707
2997.0	0.735	0.737
2997.5	0.757	0.766
2998.0	0.779	0.795
2998.5	0.801	0.826
2999.0	0.825	0.855
2999.5	0.849	0.883
3000.0	0.871	0.913
3000.5	0.896	0.940
3001.0	0.922	0.972
3001.5	0.950	1.006
3002.0	0.976	1.042
3002.5	1.006	1.083
3003.0	1.044	1.124
3003.5	1.100	1.181
3004.0	1.177	1.251
3004.5	1.270	1.337
3005.0	1.383	1.427
3005.5	1.450	1.505
3006.0	1.506	1.561
3006.5	1.537	1.602
3007.0	1.566	1.644
3007.5	1.591	1.685
3008.0	1.619	1.728
3008.5	1.650	1.773
3009.0	1.686	1.822
3009.5	1.743	1.888
3010.0	1.838	1.975
3010.5	1.953	2.079
3011.0	2.080	2.186
3011.5	2.171	2.294
3012.0	2.284	2.425
3012.5	2.479	2.589
3013.0	2.678	2.748
3013.5	2.803	2.874
3014.0	2.896	2.975
3014.5	2.960	3.054
3015.0	3.024	3.140
3015.5	3.146	3.252
[illegible]	[illegible]	[illegible]
3016.5	3.343	3.432
3017.0	3.383	3.484
3017.5	3.420	3.530
3018.0	3.450	3.574
3018.5	3.477	3.620
3019.0	3.505	3.667
3019.5	3.532	3.681
3020.0	3.559	3.715
3020.5	3.585	3.746
3021.0	3.613	3.781
3021.5	3.642	3.823
3022.0	3.682	3.868
3022.5	3.737	3.920
3023.0	3.792	3.970
3023.5	3.833	4.026
3024.0	3.885	4.076
3024.5	3.946	4.127
3025.0	3.955	4.131
3025.5	4.032	4.261
3026.0	4.136	4.338
3026.5	4.219	4.410
3027.0	4.274	4.474
3027.5	4.315	4.533
3028.0	4.356	4.590
3028.5	4.394	4.650
3029.0	4.439	4.729
3029.5	4.496	4.839
3030.0	4.576	4.915
3030.5	4.716	5.059
3031.0	4.925	5.232
3031.5	5.150	5.429
3032.0	5.406	5.622
3032.5	5.586	5.706
3033.0	5.694	5.916
3033.5	5.788	6.010
3034.0	5.918	6.149
3034.5	6.071	6.277
3035.0	6.190	6.386
3035.5	6.299	6.487
3036.0	6.402	6.587
3036.5	6.480	6.659
3037.0	6.531	6.721
3037.5	6.578	6.770
3038.0	6.607	6.815
3038.5	6.629	6.859
3039.0	6.652	6.908
3039.5	6.676	6.959
3040.0	6.695	6.979
3040.5	6.717	7.009
3041.0	6.739	7.049
3041.5	6.762	7.086
3042.0	6.787	7.119
3042.5	6.811	7.153
3043.0	6.837	7.186
3043.5	6.864	7.220
3044.0	6.888	7.251
3044.5	6.909	7.283
3045.0	6.929	7.316
3045.5	6.955	7.347
3046.0	6.978	7.383
3046.5	7.000	7.422
3047.0	7.061	7.467
3047.5	7.082	7.521
3048.0	7.139	7.565
3048.5	7.266	7.611
3049.0	7.402	7.717
3049.5	7.582	7.898

Sam. No.	10	11
p(atm)	8.42×10^{-7}	8.42×10^{-8}
p_e(atm)	5.01×10^{0}	1.001×10
w(gm/cm²)	2.05×10^{-8}	2.05×10^{-7}
ν (cm⁻¹)	ν'=2990 cm⁻¹	ν'=2990 cm⁻¹
3050.0	7.607	7.972
3050.5	7.659	8.035
3051.0	7.701	8.089
3051.5	[illegible]	8.140
3052.0	7.770	8.191
3052.5	7.802	8.239
3053.0	7.834	8.286
3053.5	7.866	8.338
3054.0	7.900	8.394
3054.5	7.939	8.457
3055.0	7.992	8.535
3055.5	8.070	8.634
3056.0	8.204	8.769
3056.5	8.414	8.929
3057.0	8.604	9.074
3057.5	8.718	9.193
3058.0	8.790	9.287
3058.5	8.847	9.367
3059.0	8.901	9.438
3059.5	8.960	9.516
3060.0	9.040	9.596
3060.5	9.115	9.676
3061.0	9.169	9.751
3061.5	9.218	9.821
3062.0	9.263	9.891
3062.5	9.313	9.970
3063.0	9.373	10.062
3063.5	9.458	10.170
3064.0	9.593	10.306
3064.5	9.809	10.464
3065.0	10.013	10.616
3065.5	10.148	10.753
3066.0	10.264	10.885
3066.5	10.399	11.017
3067.0	10.584	11.160
3067.5	10.769	11.293
3068.0	10.883	11.404
3068.5	10.955	11.490
3069.0	11.009	11.562
3069.5	[illegible]	11.629
3070.0	[illegible]	11.692
3070.5	11.129	11.746
3071.0	11.164	11.789
3071.5	11.196	11.833
3072.0	11.223	11.877
3072.5	11.253	11.920
3073.0	11.284	11.964
3073.5	11.315	12.010
3074.0	11.347	12.058
3074.5	11.381	12.102
3075.0	11.417	12.153
3075.5	11.453	12.206
3076.0	11.492	12.265
3076.5	11.536	12.325
3077.0	11.591	12.394
3077.5	11.671	12.486
3078.0	11.793	12.591
3078.5	11.918	12.706
3079.0	12.036	12.829
3079.5	12.192	12.965
3080.0	12.380	13.106
3080.5	12.523	13.234
3081.0	12.643	13.359
3081.5	12.785	13.483
3082.0	12.915	13.605
3082.5	13.032	13.720
3083.0	13.151	13.820
3083.5	13.232	13.907
3084.0	13.289	13.981
3084.5	13.335	14.067
3085.0	13.378	14.107
3085.5	13.420	14.165
3086.0	13.463	14.227
3086.5	13.517	14.286
3087.0	13.571	14.352
3087.5	13.641	14.419
3088.0	13.697	14.480
3088.5	13.760	14.532
3089.0	13.778	14.586
3089.5	13.816	14.636
3090.0	13.849	14.687
3090.5	[illegible]	14.763
3091.0	13.921	14.795
3091.5	13.962	14.892
3092.0	14.302	14.914
3092.5	14.345	14.980
3093.0	14.092	15.056
3093.5	14.170	15.141
3094.0	14.240	15.238
3094.5	14.396	15.365
3095.0	14.463	15.466
3095.5	14.603	15.634
3096.0	14.811	15.766
3096.5	15.011	15.930
3097.0	15.156	16.055
3097.5	15.250	16.171
3098.0	15.361	16.201
3098.5	15.418	16.395
3099.0	15.511	16.519
3099.5	15.633	16.659
3100.0	[illegible]	16.815
3100.5	15.901	16.975
3101.0	16.180	17.141
3101.5	16.396	17.311
3102.0	16.566	17.470
3102.5	16.705	17.617
3103.0	16.855	17.756
3103.5	16.993	17.881
3104.0	17.091	17.986
3104.5	17.190	18.075
3105.0	17.213	18.155
3105.5	17.266	18.233
3106.0	17.317	18.299
3106.5	17.376	18.387
3107.0	17.444	18.470
3107.5	17.549	18.570
3108.0	17.657	18.670
3108.5	17.760	18.779
3109.0	17.811	18.865
3109.5	17.896	18.962

Sam. No.	10	11
p(atm)	8.42×10^{-7}	8.42×10^{-8}
p_e(atm)	5.01×10^{0}	1.001×10
w(gm/cm²)	2.05×10^{-8}	2.05×10^{-7}
ν (cm⁻¹)	ν'=2990 cm⁻¹	ν'=2990 cm⁻¹
3110.0	17.930	19.067
3110.5	17.986	19.157
3111.0	18.166	19.255
3111.5	18.239	19.355
3112.0	18.331	19.461
3112.5	18.450	19.571
3113.0	18.551	19.681
3113.5	18.634	19.789
3114.0	18.721	19.902
3114.5	18.818	20.026
3115.0	18.975	20.170
3115.5	19.143	20.336
3116.0	19.371	20.517
3116.5	19.577	20.690
3117.0	19.721	20.850
3117.5	19.840	20.998
3118.0	19.978	21.158
3118.5	20.160	21.330
3119.0	20.365	21.506
3119.5	20.558	21.672
3120.0	20.684	21.819
3120.5	20.783	21.951
3121.0	20.872	22.078
3121.5	20.976	22.217
3122.0	21.122	22.379
3122.5	21.343	22.565
3123.0	21.583	22.750
3123.5	21.757	22.905
3124.0	21.864	23.036
3124.5	21.756	23.151
3125.0	22.043	23.262
3125.5	22.142	23.378
3126.0	22.253	23.499
3126.5	22.389	23.629
3127.0	22.548	23.759
3127.5	22.673	23.878
3128.0	22.754	23.977
3128.5	[illegible]	24.062
3129.0	22.872	24.136
3129.5	22.918	24.210
3130.0	22.962	24.282
3130.5	23.008	24.358
3131.0	23.059	24.435
3131.5	23.119	24.518
3132.0	23.197	24.620
3132.5	23.315	24.746
3133.0	23.508	24.896
3133.5	23.722	25.040
3134.0	23.862	25.160
3134.5	23.948	25.259
3135.0	24.011	25.343
3135.5	24.060	25.411
[illegible]	[illegible]	[illegible]
3136.5	24.140	25.539
3137.0	24.174	25.594
3137.5	24.207	25.648
3138.0	24.239	25.699
3138.5	24.269	25.750
3139.0	24.299	25.800
3139.5	24.333	25.849
3140.0	24.368	25.900
3140.5	24.402	25.949
3141.0	24.433	25.997
3141.5	24.465	26.048
3142.0	24.501	26.102
3142.5	24.567	26.160
3143.0	24.606	26.223
3143.5	24.652	26.277
3144.0	24.690	26.328
3144.5	24.723	26.376
3145.0	24.751	26.417
3145.5	24.786	26.459
3146.0	24.815	26.501
3146.5	24.846	26.543
3147.0	24.875	26.585
3147.5	24.903	26.628
3148.0	24.931	26.669
3148.5	24.960	26.712
3149.0	24.989	26.756
3149.5	25.019	26.797
3150.0	25.049	26.840
3150.5	25.078	26.884
3151.0	25.116	26.931
3151.5	25.157	26.982
3152.0	25.197	27.035
3152.5	25.239	27.088
3153.0	25.275	27.140
3153.5	25.305	27.187
3154.0	25.332	27.232
3154.5	25.358	27.277
3155.0	25.385	27.321
3155.5	25.409	27.365
3156.0	25.436	27.406
3156.5	25.459	27.446
3157.0	25.485	27.483
3157.5	25.509	27.511
3158.0	[illegible]	27.577
3158.5	25.554	27.619
3159.0	25.581	27.662
3159.5	25.609	27.703
3160.0	25.635	27.745
3160.5	25.662	27.788
3161.0	25.686	27.831
3161.5	25.712	27.876
3162.0	25.737	27.920
3162.5	25.761	27.966
3163.0	25.790	28.011
3163.5	25.819	28.056
3164.0	25.851	28.102
3164.5	25.884	28.147
3165.0	25.917	28.192
3165.5	25.960	28.237
3166.0	25.981	28.286
3166.5	[illegible]	28.336
3167.0	26.069	28.386
3167.5	26.109	28.436
3168.0	26.139	28.486
3168.5	26.179	28.551
3169.0	[illegible]	28.612
3169.5	26.269	28.672

Sam. No.	10	11
p(atm)	8.42×10^{-7}	8.42×10^{-8}
p_e(atm)	5.01×10^{0}	1.001×10
w(gm/cm²)	2.05×10^{-8}	2.05×10^{-7}
ν (cm⁻¹)	ν'=2990 cm⁻¹	ν'=2990 cm⁻¹
3170.0	26.316	28.727
3170.5	26.360	28.762
3171.0	26.398	28.836
3171.5	26.431	28.887
3172.0	26.462	28.937
3172.5	26.493	28.990
3173.0	26.526	29.044
3173.5	26.563	29.098
3174.0	26.597	29.152
3174.5	26.634	29.212
3175.0	26.675	29.276
3175.5	26.718	29.347
3176.0	26.766	29.419
3176.5	26.822	29.501
3177.0	26.892	29.5 9
3177.5	27.000	29.720
3178.0	27.180	29.868
3178.5	27.408	30.024
3179.0	27.574	30.166
3179.5	27.678	30.281
3180.0	27.753	30.378
3180.5	27.811	30.465
3181.0	27.860	30.541
3181.5	27.909	30.614
3182.0	27.958	30.685
3182.5	28.009	30.758
3183.0	28.062	30.830
3183.5	28.116	30.904
3184.0	28.178	30.988
3184.5	28.264	31.084
3185.0	28.390	31.192
3185.5	28.536	31.302
3186.0	28.644	31.402
3186.5	28.712	31.486
3187.0	28.765	31.560
3187.5	28.810	31.626
3188.0	28.847	31.685
3188.5	28.882	31.738
3189.0	28.917	31.791
3189.5	28.953	31.839
3190.0	28.987	31.890
3190.5	29.020	31.940
3191.0	29.055	31.990
3191.5	29.091	32.039
3192.0	29.127	32.091
3192.5	29.166	32.145
3193.0	29.203	32.199
3193.5	29.240	32.255
3194.0	29.277	32.315
3194.5	29.320	32.376
3195.0	29.370	32.448
3195.5	29.433	32.529
3196.0	29.526	32.625
3196.5	29.643	32.731
3197.0	29.756	32.850
3197.5	29.899	32.986
3198.0	30.103	33.137
3198.5	30.289	33.283
3199.0	30.408	33.405
3199.5	30.499	33.509
3200.0	30.566	33.600
3200.5	30.660	33.681
3201.0	30.716	33.755
3201.5	30.761	33.821
3202.0	30.803	33.884
3202.5	30.846	33.962
3203.0	30.886	34.000
3203.5	30.928	34.058
3204.0	30.968	34.113
3204.5	31.006	34.165
3205.0	31.043	34.221
3205.5	31.082	34.276
3206.0	31.122	34.332
3206.5	31.163	34.391
3207.0	31.208	34.456
3207.5	31.256	34.519
3208.0	31.311	34.599
3208.5	31.378	34.682
3209.0	31.472	34.791
3209.5	31.626	34.926
3210.0	31.810	35.074
3210.5	31.997	35.213
3211.0	32.106	35.330
3211.5	32.167	35.429
3212.0	[illegible]	[illegible]
3212.5	32.312	35.617
3213.0	32.412	35.723
3213.5	32.523	35.849
3214.0	32.704	35.997
3214.5	32.933	36.157
3215.0	33.111	36.308
3215.5	33.229	36.434
3216.0	33.322	36.545
3216.5	33.418	36.650
3217.0	33.510	36.751
3217.5	33.603	36.856
3218.0	33.681	36.950
3218.5	33.769	37.071
3219.0	33.891	37.205
3219.5	34.091	37.362
3220.0	34.290	37.517
3220.5	34.467	37.657
3221.0	34.570	37.782
3221.5	34.665	37.882
3222.0	34.759	37.990
3222.5	34.852	38.079
3223.0	34.922	38.161
3223.5	[illegible]	38.233
3224.0	35.026	38.300
3224.5	35.077	38.367
3225.0	[illegible]	38.433
3225.5	[illegible]	38.507
3226.0	[illegible]	38.585
3226.5	35.296	38.671
3227.0	35.379	38.767
3227.5	[illegible]	38.875
3228.0	35.655	38.986
3228.5	35.726	39.089
3229.0	35.826	[illegible]
3229.5	[illegible]	39.299

Sam. No.	10	11
p(atm)	8.42×10^{-7}	8.42×10^{-8}
p_e(atm)	5.01×10^{0}	1.001×10
w(gm/cm²)	2.05×10^{-8}	2.05×10^{-7}
ν (cm⁻¹)	ν'=2990 cm⁻¹	ν'=2990 cm⁻¹
3230.0	36.036	39.413
3230.5	36.164	39.527
3231.0	36.267	39.637
3231.5	36.355	39.738
3232.0	36.435	39.835
3232.5	36.533	39.961
3233.0	36.660	40.056
3233.5	36.781	40.165
3234.0	36.859	40.259
3234.5	36.923	40.343
3235.0	36.982	40.422
3235.5	37.045	40.501
3236.0	37.122	40.593
3236.5	37.236	40.697
3237.0	37.379	40.806
3237.5	37.484	40.902
3238.0	37.558	40.991
3238.5	37.623	41.070
3239.0	37.683	41.149
3239.5	37.752	41.235
3240.0	37.850	41.330
3240.5	37.967	41.429
3241.0	38.052	41.519
3241.5	38.124	41.604
3242.0	38.198	41.686
3242.5	38.271	41.774
3243.0	38.343	41.865
3243.5	38.425	41.967
3244.0	38.525	42.086
3244.5	38.676	42.235
3245.0	38.915	42.415
3245.5	39.172	42.599
3246.0	39.348	42.755
3246.5	39.459	42.881
3247.0	39.540	42.984
3247.5	39.612	43.072
3248.0	39.675	43.149
3248.5	39.728	43.223
3249.0	39.776	43.287
3249.5	39.824	43.346
3250.0	39.871	43.404
3250.5	39.916	43.464
3251.0	39.962	43.527
3251.5	40.010	43.591
3252.0	40.064	43.661
3252.5	40.119	43.739
3253.0	40.187	43.831
3253.5	40.286	43.950
3254.0	40.463	44.134
3254.5	40.695	44.268
3255.0	40.849	44.407
3255.5	40.946	44.519
3256.0	41.037	44.625
3256.5	41.139	44.733
3257.0	41.250	44.865
3257.5	41.391	44.958
3258.0	41.506	45.064
3258.5	41.589	45.156
3259.0	41.655	45.238
3259.5	41.716	45.318
3260.0	41.792	45.411
3260.5	41.902	45.514
3261.0	42.012	45.614
3261.5	42.087	45.704
3262.0	42.144	45.784
3262.5	42.197	45.861
3263.0	42.256	45.937
3263.5	42.324	46.016
3264.0	42.393	46.130
3264.5	42.462	46.185
3265.0	42.548	46.276
3265.5	42.646	46.365
3266.0	42.717	46.445
3266.5	42.763	46.523
3267.0	42.837	46.590
3267.5	42.880	46.651
3268.0	42.922	46.711
3268.5	42.962	46.776
3269.0	43.005	46.860
3269.5	43.050	46.910
3270.0	43.110	46.981
3270.5	43.163	47.066
3271.0	43.238	47.158
3271.5	[illegible]	47.257
3272.0	[illegible]	47.368
3272.5	43.567	47.485
3273.0	43.660	47.669
3273.5	43.856	47.833
3274.0	44.103	48.022
3274.5	44.286	[illegible]
3275.0	44.421	48.365
3275.5	44.569	48.520
3276.0	44.704	48.671
3276.5	44.860	48.862
3277.0	45.156	[illegible]
3277.5	45.280	49.187
3278.0	45.366	49.307
3278.5	45.442	49.416
3279.0	45.526	49.523
3279.5	45.617	49.632
3280.0	45.710	49.735
3280.5	45.827	49.835
3281.0	45.899	49.926
3281.5	45.957	50.007
3282.0	46.011	50.090
3282.5	46.076	50.181
3283.0	46.192	50.301
3283.5	46.319	50.426
3284.0	46.419	50.552
3284.5	[illegible]	50.675
3285.0	[illegible]	50.801
3285.5	46.616	50.777
3286.0	46.697	50.869
3286.5	46.709	50.919
3287.0	[illegible]	50.987
3287.5	46.860	51.073
3288.0	46.878	51.166
3288.5	46.986	[illegible]
3289.0	47.119	51.304
3289.5	47.219	51.404

Table 5-3 $\int_{\nu}^{\nu} A(\nu)\,d\nu$ (cont'd)

ν (cm^{-1})	[illegible]	[illegible]
3290.0	47.295	51.603
3290.5	47.375	51.713
3291.0	47.476	51.848
3291.5	47.656	52.006
3292.0	47.811	52.158
3292.5	47.958	52.303
3293.0	48.122	52.444
3293.5	48.250	52.559
3294.0	48.341	52.673
3294.5	48.422	52.766
3295.0	48.465	52.851
3295.5	48.538	52.930
3296.0	48.589	53.009
3296.5	48.653	53.095
3297.0	48.740	53.193
3297.5	48.867	53.301
3298.0	48.988	53.409
3298.5	49.081	53.501
3299.0	49.142	53.579
3299.5	49.189	53.649
3300.0	49.240	53.714
3300.5	49.298	53.779
3301.0	49.346	53.841
3301.5	49.386	53.899
3302.0	49.421	53.956
3302.5	49.460	54.014
3303.0	49.508	54.077
3303.5	49.569	54.140
3304.0	49.622	54.199
3304.5	49.662	54.254
3305.0	49.700	54.311
3305.5	49.737	54.368
3306.0	49.775	54.424
3306.5	49.818	54.488
3307.0	49.867	54.563
3307.5	49.935	54.654
3308.0	50.043	54.777
3308.5	50.221	54.938
3309.0	50.454	55.121
3309.5	50.651	55.292
3310.0	50.773	55.437
3310.5	50.908	55.576
3311.0	51.047	55.711
3311.5	51.136	55.822
3312.0	51.229	55.940
3312.5	51.338	56.066
3313.0	51.462	56.168
3313.5	51.625	56.296
3314.0	51.761	56.407
3314.5	51.845	56.506
3315.0	51.908	56.583
3315.5	51.960	56.653
3316.0	52.006	56.716
3316.5	52.050	56.781
3317.0	52.103	56.847
3317.5	52.171	56.920
3318.0	[illegible]	56.996
3318.5	52.286	57.051
3319.0	52.338	57.110
3319.5	52.381	57.167
3320.0	52.421	57.223
3320.5	52.466	57.281
3321.0	52.506	57.337
3321.5	52.548	57.396
3322.0	52.592	57.452
3322.5	52.665	57.517
3323.0	52.717	57.581
3323.5	52.796	57.653
3324.0	52.865	57.756
3324.5	52.966	57.863
3325.0	53.083	57.975
3325.5	53.166	58.079
[illegible]	[illegible]	[illegible]

ν (cm^{-1})	[illegible]	[illegible]
3350.0	56.784	62.022
3350.5	56.812	62.086
3351.0	56.867	62.150
3351.5	56.920	62.217
3352.0	56.972	62.286
3352.5	57.020	62.353
3353.0	57.077	62.427
3353.5	57.144	62.506
3354.0	57.223	62.593
3354.5	57.310	62.687
3355.0	57.392	62.806
3355.5	57.540	62.950
3356.0	57.718	63.097
3356.5	57.856	63.235
3357.0	57.991	63.364
3357.5	58.119	63.482
3358.0	58.208	63.595
3358.5	58.281	63.646
3359.0	58.361	63.792
3359.5	58.472	63.908
3360.0	58.603	64.032
3360.5	58.721	64.160
3361.0	58.835	64.296
3361.5	58.986	64.450
3362.0	59.186	64.612
3362.5	59.351	64.763
3363.0	59.478	64.902
3363.5	59.595	65.037
3364.0	59.712	65.183
3364.5	59.884	65.344
3365.0	60.061	65.515
3365.5	60.253	65.698
3366.0	60.469	65.888
3366.5	60.68	66.066
3367.0	60.837	66.231
3367.5	61.004	66.398
3368.0	61.202	66.563
3368.5	61.344	66.706
3369.0	61.462	66.827
3369.5	61.563	66.931
3370.0	61.642	67.023
3370.5	61.701	67.098
3371.0	61.757	67.159
3371.5	61.809	67.235
3372.0	61.852	67.297
3372.5	61.890	67.353
3373.0	61.930	67.408
3373.5	61.973	67.462
3374.0	62.015	67.520
3374.5	62.065	67.577
3375.0	62.122	67.633
3375.5	62.175	67.689
3376.0	62.226	67.742
3376.5	62.267	67.796
3377.0	62.311	67.850
3377.5	62.363	67.910
3378.0	62.424	67.940
3378.5	62.495	68.044
3379.0	62.556	68.111
3379.5	62.611	68.176
3380.0	62.664	68.237
3380.5	62.725	68.299
3381.0	62.785	68.363
3381.5	62.816	68.426
3382.0	62.888	68.496
3382.5	62.950	68.575
3383.0	63.019	68.676
[illegible]	[illegible]	[illegible]

ν (cm^{-1})	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
3412.5	69.376	75.138
3413.0	69.451	75.275
3413.5	69.534	75.355
3414.0	69.635	75.436
3414.5	69.577	75.537
3415.0	69.733	75.578
3415.5	69.791	75.652
3416.0	69.857	75.713
3416.5	69.921	75.812
3417.0	69.987	75.901
3417.5	70.060	76.001
3418.0	70.149	76.118
3418.5	[illegible]	76.259
3419.0	70.461	76.433
3419.5	70.615	76.634
3420.0	[illegible]	[illegible]
3420.5	71.267	77.249
3421.0	71.667	77.569
3421.5	71.951	77.850
3422.0	72.250	78.133
3422.5	72.530	78.382
3423.0	72.756	78.616
3423.5	72.976	78.851
3424.0	73.118	79.067
3424.5	73.222	79.108
3425.0	73.299	79.209
3425.5	73.369	79.303
3426.0	73.436	79.394
3426.5	73.507	79.487
3427.0	73.587	79.589
3427.5	73.689	79.721
3428.0	73.825	79.889
3428.5	73.968	79.932
3429.0	74.135	80.136
3429.5	[illegible]	[illegible]
3430.0	74.195	80.261
3430.5	74.297	80.361
3431.0	74.450	80.498
3431.5	74.625	80.637
3432.0	74.761	80.766
3432.5	74.872	80.885
3433.0	74.989	80.999
3433.5	75.095	81.120
3434.0	75.176	81.236
3434.5	75.245	81.292
3435.0	75.307	81.377
3435.5	75.369	81.466
3436.0	75.440	81.559
3436.5	75.530	81.666
3437.0	75.627	81.771
3437.5	75.702	81.876
3438.0	75.796	81.988
3438.5	75.901	82.112
3439.0	76.014	82.239
3439.5	76.106	82.362
3440.0	76.206	82.493
3440.5	76.321	82.638
3441.0	[illegible]	82.830
[illegible]	[illegible]	[illegible]

ν (cm^{-1})	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
3472.5	87.355	94.832
3473.0	87.560	94.966
3473.5	87.780	95.109
3474.0	87.993	95.271
3474.5	88.116	95.466
3475.0	88.349	95.717
3475.5	88.671	95.963
3476.0	88.866	96.135
3476.5	88.994	96.295
3477.0	89.101	96.419
3477.5	89.197	96.577
3478.0	89.293	96.715
3478.5	89.396	96.862
3479.0	[illegible]	[illegible]
3479.5	89.663	97.236
3480.0	89.871	97.435
3480.5	90.180	97.818
3481.0	90.568	98.171
3481.5	90.908	98.517
3482.0	91.288	98.887
3482.5	91.732	99.280
3483.0	92.119	99.633
3483.5	92.391	99.922
3484.0	[illegible]	[illegible]
3484.5	92.810	100.426
3485.0	92.991	100.627
3485.5	93.182	100.858
3486.0	93.418	101.133
3486.5	93.644	101.351
3487.0	93.869	101.606
3487.5	94.096	101.905
3488.0	94.450	102.272
3488.5	94.871	102.636
3489.0	95.179	[illegible]
3489.5	95.365	[illegible]
3490.0	95.502	[illegible]
3490.5	95.625	[illegible]
3491.0	95.776	[illegible]
3491.5	95.952	[illegible]
3492.0	[illegible]	104.039
3492.5	96.201	104.196
3493.0	96.309	104.369
3493.5	[illegible]	104.511
3494.0	96.566	104.643
3494.5	96.721	104.906
3495.0	96.951	105.150
3495.5	97.265	105.452
3496.0	97.570	105.761
3496.5	97.902	106.079
3497.0	98.275	106.392
3497.5	98.569	106.673
3498.0	98.777	106.918
3498.5	98.966	107.14
3499.0	[illegible]	[illegible]
3499.5	[illegible]	[illegible]
3500.0	99.572	107.873
3500.5	99.826	108.235
3501.0	100.101	108.560
3501.5	[illegible]	[illegible]
3502.0	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

ν (cm^{-1})	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
3535.0	122.865	132.877
3535.5	123.119	133.162
3536.0	[illegible]	133.569
3536.5	123.968	134.025
3537.0	124.404	134.419
3537.5	124.766	134.783
3538.0	125.005	135.101
[illegible]	[illegible]	[illegible]
3540.0	125.867	136.211
3540.5	126.091	136.441
3541.0	126.31	136.777
3541.5	[illegible]	137.079
3542.0	126.779	137.413
3542.5	127.098	137.793
3543.0	127.400	138.212
3543.5	127.662	138.658
3544.0	128.084	139.121
3544.5	128.675	139.595
3545.0	129.361	140.080
3545.5	129.856	140.569
3546.0	130.356	141.057
3546.5	130.825	141.566
3547.0	131.317	142.038
3547.5	131.809	142.525
3548.0	132.281	142.997
3548.5	132.736	143.468
3549.0	133.150	143.876
3549.5	133.504	144.284
3550.0	133.847	144.696
3550.5	134.214	145.098
3551.0	134.605	145.527
3551.5	135.025	145.980
3552.0	135.497	146.454
3552.5	135.992	146.936
3553.0	136.477	147.413
3553.5	136.938	147.892
3554.0	[illegible]	148.365
3554.5	137.866	148.781
3555.0	138.191	149.176
3555.5	138.460	149.518
3556.0	138.746	149.853
3556.5	139.023	150.233
3557.0	139.351	150.595
3557.5	139.711	150.959
3558.0	140.034	151.326
3558.5	140.340	151.700
3559.0	140.657	152.067
3559.5	141.032	152.425
3560.0	141.440	152.883
[illegible]	[illegible]	[illegible]

Table 5-4 $\frac{1}{u}\int_{\nu_1}^{\nu} -\ln T(\nu')\,d\nu'$

Case No.	10	11	Case No.	[illegible]	[illegible]	Case No.	[illegible]	[illegible]	Case No.	[illegible]	[illegible]
p(atm)	8.42 × 10	8.4 × 10	p(atm)	[illegible]	[illegible]	p(atm)	[illegible]	[illegible]	p(atm)	[illegible]	[illegible]
P_e(atm)	1.03 × 10²	1.30 × 10	P_e(atm)	[illegible]	[illegible]	P_e(atm)	[illegible]	[illegible]	P_e(atm)	[illegible]	[illegible]
u(gm cm⁻²)	2.05 × 10⁻²	2.05 × 10⁻¹	u(gm cm⁻²)	[illegible]	[illegible]	u(gm cm⁻²)	[illegible]	[illegible]	u(gm cm⁻²)	[illegible]	[illegible]
ν (cm⁻¹)	ν₁=2990 cm⁻¹	2990 cm⁻¹	ν (cm⁻¹)	2990 cm⁻¹	2990 cm⁻¹	ν (cm⁻¹)	2990 cm⁻¹	2990 cm⁻¹	ν (cm⁻¹)	2990 cm⁻¹	2990 cm⁻¹
2990.0	0.	0.	3040.0	3.7024617+002	3.7714716+002	3090.0	7.6627028+002	7.9612296+002	3140.0	1.3682196+003	1.4260831+003
2990.5	1.6501996+000	2.0364112+000	3040.5	3.7133494+002	3.7446399+002	3090.5	7.6813577+002	7.9730346+002	3140.5	1.3699574+003	1.4269358+003
2991.0	3.0116367+000	3.3927820+000	3041.0	3.7262742+002	[illegible]	3091.0	[illegible]	7.9937941+002	3141.0	1.3716431+003	1.4290699+003
2991.5	4.7967512+000	5.8585988+000	3041.5	3.7355801+002	[illegible]	3091.5	7.7231597+002	8.0261966+002	3141.5	1.3713585+003	1.4316757+003
2992.0	7.2209716+000	8.2601376+000	3042.0	3.7480303+002	[illegible]	3092.0	7.7606496+002	8.0543031+002	3142.0	1.3745139+003	1.4344893+003
2992.5	1.0029138+001	1.0972141+001	3042.5	3.7610176+002	[illegible]	3092.5	7.7624646+002	8.0928261+002	3142.5	1.3772356+003	1.4376711+003
2993.0	1.2819689+001	1.3855623+001	3043.0	3.7732912+002	3.8783658+002	3093.0	7.7894346+002	8.1317627+002	3143.0	1.3802475+003	1.4407221+003
2993.5	1.5534777+001	1.7121719+001	3043.5	3.7867104+002	3.8955026+002	3093.5	7.8279777+002	8.1786027+002	3143.5	1.3827135+003	1.4435206+003
2994.0	1.9341271+001	2.1065302+001	3044.0	3.7986187+002	3.9121276+002	3094.0	7.8761763+002	8.2312992+002	3144.0	.3806353+003	1.4461438+003
2994.5	2.5368501+001	2.5791756+001	3044.5	3.8033379+002	3.9270416+002	3094.5	7.9277110+002	8.2894976+002	3144.5	1.3862645+003	1.4485177+003
2995.0	2.9356105+001	2.9579098+001	3045.0	3.8193509+002	3.9627767+002	3095.0	7.9957752+002	8.3573621+002	3145.0	1.3977744+003	[illegible]
2995.5	3.3216124+001	3.3835618+001	3045.5	3.8316361+002	3.9592373+002	3095.5	8.0667468+002	8.4190532+002	3145.5	1.3843605+003	1.4528687+003
2996.0	3.5709926+001	3.5113515+001	3046.0	3.8440358+002	3.9726759+002	3096.0	8.1340595+002	8.5310734+002	3146.0	1.3909182+003	1.4548086+003
2996.5	3.7172994+001	3.7770190+001	3046.5	3.8587039+002	[illegible]	3096.5	8.3234304+002	[illegible]	3146.5	1.3926889+003	1.4571252+003
2997.0	3.8347607+001	3.4173856+001	3047.0	3.8751274+002	4.0204124+002	3097.0	8.4055150+002	8.5974410+002	3147.0	1.3934513+003	1.4592617+003
2997.5	3.9635556+001	3.4567140+001	3047.5	3.8952314+002	4.0484673+002	3097.5	8.4623580+002	8.7635568+002	3147.5	1.3953491+003	1.4614472+003
2998.0	4.0552165+001	4.1113204+001	3048.0	3.9254023+002	4.0870835+002	3098.0	8.5369932+002	8.8237456+002	3148.0	1.3967233+003	1.4635480+003
2998.5	4.1662796+001	4.2661088+001	3048.5	3.9535645+002	4.1339556+002	3098.5	8.5675897+002	8.8956860+002	3148.5	1.3981376+003	1.4657262+003
2999.0	4.2876422+001	4.4029384+001	3049.0	4.0748535+002	4.1974051+002	3099.0	8.5978027+002	[illegible]	3149.0	1.3996656+003	1.4679121+003
2999.5	4.4068066+001	4.5511501+001	3049.5	4.1482596+002	4.2498121+002	3099.5	8.6794945+002	9.0352739+002	3149.5	1.4011594+003	1.4700365+003
3000.0	4.5117987+001	4.7018901+001	3050.0	4.1987609+002	4.2912339+002	3100.0	8.7415991+002	9.1260967+002	3150.0	1.4026376+003	1.4722184+003
3000.5	4.6383747+001	4.8305924+001	3050.5	4.2158712+002	4.3238742+002	3100.5	8.8734723+002	9.2189686+002	3150.5	1.4041303+003	1.4744779+003
3001.0	4.7735002+001	4.9989611+001	3051.0	4.2370693+002	4.3516538+002	3101.0	8.9801457+002	9.3182876+002	3151.0	1.4059437+003	1.4768729+003
3001.5	4.9111382+001	5.1719616+001	3051.5	4.2555246+002	4.3779531+002	3101.5	9.1311013+002	9.4195554+002	3151.5	1.4081104+003	1.4794981+003
3002.0	5.0408635+001	5.3532898+001	3052.0	4.2719881+002	4.4063433+002	3102.0	9.2357307+002	9.5124364+002	3152.0	1.4101651+003	1.4822037+003
3002.5	5.1921340+001	5.5532599+001	3052.5	4.2862196+002	4.4288545+002	3102.5	9.3162829+002	9.5974182+002	3152.5	1.4122679+003	1.4863674+003
3003.0	5.3613376+001	5.7714271+001	3053.0	4.3045993+002	4.4531005+002	3103.0	9.4019133+002	9.6757456+002	3153.0	1.4141056+003	1.4876155+003
3003.5	5.6722559+001	6.0634807+001	3053.5	4.3202666+002	4.4798571+002	3103.5	9.4818253+002	9.7466802+002	3153.5	1.4156360+003	1.4900471+003
3004.0	6.0807797+001	6.3497499+001	3054.0	4.3373305+002	4.5085859+002	3104.0	9.5351996+002	9.8060540+002	3154.0	1.4169816+003	1.4923360+003
3004.5	6.5801455+001	6.8967539+001	3054.5	4.3573813+002	4.5413908+002	3104.5	9.5639419+002	9.8521382+002	3154.5	1.4182552+003	1.4946174+003
3005.0	7.2050232+001	7.5760103+001	3055.0	4.3946664+002	4.5827574+002	3105.0	9.5985655+002	9.8746174+002	3155.0	1.4195022+003	1.4968026+003
3005.5	7.8114869+001	7.7400536+001	3055.5	4.4242553+002	4.6366477+002	3105.5	9.6249051+002	9.9367471+002	3155.5	1.4208645+003	1.4981122+003
3006.0	7.8691135+001	8.2770644+001	3056.0	4.5726430+002	4.7132177+002	3106.0	9.6510645+002	9.9716203+002	3156.0	1.4220782+003	1.5012121+003
3006.5	8.0079502+001	8.2457268+001	3056.5	4.6460183+002	4.8072369+002	3106.5	9.6813867+002	1.0017269+003	3156.5	1.4235264+003	[illegible]
3007.0	8.1526532+001	8.5719636+001	3057.0	4.7335092+002	4.9407722+002	3107.0	9.7185258+002	1.0066531+003	3157.0	1.4246194+003	[illegible]
3007.5	8.2774072+001	8.7108262+001	3057.5	4.8160096+002	4.9570529+002	3107.5	9.7755175+002	1.0120381+003	3157.5	1.4256196+003	1.5076626+003
3008.0	8.4195669+001	8.9739211+001	3058.0	4.8546789+002	5.0379103+002	3108.0	9.8526773+002	1.0174665+003	3158.0	1.4270601+003	1.5098164+003
3008.5	8.5729842+001	9.1558119+001	3058.5	4.8642993+002	5.0500387+002	3108.5	9.8793726+002	1.0226565+003	3158.5	1.4282321+003	1.5119999+003
3009.0	8.7528795+001	9.4082301+001	3059.0	4.9115365+002	[illegible]	3109.0	9.9176771+002	1.0275733+003	3159.0	1.4294222+003	1.5142255+003
3009.5	9.0484528+001	9.7561469+001	3059.5	4.9621766+002	5.1246877+002	3109.5	9.9609234+002	1.0324670+003	3159.5	1.4307065+003	1.5163141+003
3010.0	9.5682767+001	1.0213344+002	3060.0	4.9950102+002	5.1714014+002	3110.0	1.0012846+003	1.0382807+003	3160.0	1.4321352+003	1.5184536+003
3010.5	1.0335467+002	1.0730781+002	3060.5	5.0265180+002	5.2139604+002	3110.5	1.0063113+003	1.0434216+003	3160.5	1.4334726+003	1.5206640+003
3011.0	1.0923044+002	1.1376134+002	3061.0	5.0521277+002	5.2530581+002	3111.0	1.0107134+003	1.0487376+003	3161.0	1.4346776+003	1.5228557+003
3011.5	1.1407896+002	1.1960154+002	3061.5	5.0776682+002	5.2902846+002	3111.5	1.0145626+003	1.0541653+003	3161.5	1.4359876+003	1.5250632+003
3012.0	1.2036585+002	1.2737867+002	3062.0	[illegible]	[illegible]	3112.0	1.0134851+003	1.0589163+003	3162.0	1.4372366+003	1.5273636+003
3012.5	1.3251465+002	1.3679722+002	3062.5	5.1262664+002	5.3669777+002	3112.5	1.0261353+003	[illegible]	3162.5	1.4385358+003	1.5297137+003
3013.0	1.4505375+002	1.4626954+002	3063.0	5.1574769+002	5.4161249+002	3113.0	1.0316211+003	1.0720432+003	3163.0	1.4398850+003	1.5320032+003
3013.5	1.5206534+002	1.5316077+002	3063.5	5.2026501+002	5.4772741+002	3113.5	[illegible]	[illegible]	3163.5	1.4413306+003	1.5343121+003
3014.0	1.5710676+002	1.5871491+002	3064.0	5.2771316+002	5.5564141+002	3114.0	[illegible]	[illegible]	3164.0	1.4431273+003	1.5366776+003
3014.5	1.6040616+002	1.6226874+002	3064.5	5.4169902+002	5.6471156+002	3114.5	[illegible]	[illegible]	3164.5	1.4444870+003	1.5390586+003
3015.0	1.6374176+002	1.6766902+002	3065.0	5.5672016+002	5.7356784+002	3115.0	[illegible]	[illegible]	3165.0	1.4462558+003	1.5412767+003
3015.5	1.7065011+002	1.7163075+002	3065.5	5.6237937+002	5.8134910+002	3115.5	[illegible]	[illegible]	3165.5	1.4478558+003	1.5435577+003
3016.0	1.7820907+002	1.7967118+002	3066.0	5.6485346+002	5.8492335+002	3116.0	[illegible]	[illegible]	3166.0	1.4494676+003	1.5460358+003
3016.5	1.8155197+002	1.8335119+002	3066.5	5.7651132+002	5.9629816+002	3116.5	[illegible]	[illegible]	3166.5	1.4511191+003	[illegible]
3017.0	1.8362105+002	1.8627561+002	3067.0	5.8779636+002	[illegible]	3117.0	[illegible]	[illegible]	3167.0	1.4528415+003	1.5510842+003
3017.5	1.8566176+002	1.8932229+002	3067.5	5.9817651+002	6.1236032+002	3117.5	[illegible]	[illegible]	3167.5	1.4549293+003	1.5537854+003
3018.0	1.8696783+002	1.9531589+002	3068.0	6.0465861+002	6.1810131+002	3118.0	[illegible]	[illegible]	3168.0	[illegible]	[illegible]
3018.5	1.8936407+002	1.9259312+002	3068.5	[illegible]	[illegible]	3118.5	[illegible]	[illegible]	3168.5	[illegible]	[illegible]
3019.0	1.8919961+002	1.9613669+002	3069.0	[illegible]	[illegible]	3119.0	[illegible]	[illegible]	3169.0	[illegible]	[illegible]
3019.5	1.9109435+002	[illegible]	3069.5	[illegible]	[illegible]	3119.5	[illegible]	[illegible]	3169.5	[illegible]	[illegible]
3020.0	1.9266876+002	1.9761317+002	3070.0	[illegible]	[illegible]	3120.0	[illegible]	[illegible]	3170.0	[illegible]	[illegible]
3020.5	1.9176652+002	1.9962186+002	3070.5	[illegible]	[illegible]	3120.5	[illegible]	[illegible]	3170.5	[illegible]	[illegible]
3021.0	1.9514153+002	2.0128692+002	3071.0	[illegible]	[illegible]	3121.0	[illegible]	[illegible]	3171.0	[illegible]	[illegible]
3021.5	1.9661156+002	2.0322168+002	3071.5	[illegible]	[illegible]	3121.5	[illegible]	[illegible]	3171.5	[illegible]	[illegible]
3022.0	1.9965936+002	2.0556662+002	3072.0	[illegible]	[illegible]	3122.0	[illegible]	[illegible]	3172.0	[illegible]	[illegible]
3022.5	2.0267316+002	[illegible]	3072.5	[illegible]	[illegible]	3122.5	[illegible]	[illegible]	3172.5	[illegible]	[illegible]
3023.0	[illegible]	[illegible]	3073.0	[illegible]	[illegible]	3123.0	[illegible]	[illegible]	3173.0	[illegible]	[illegible]
3023.5	[illegible]	[illegible]	3073.5	[illegible]	[illegible]	3123.5	[illegible]	[illegible]	3173.5	[illegible]	[illegible]
3024.0	[illegible]	[illegible]	3074.0	[illegible]	[illegible]	3124.0	[illegible]	[illegible]	3174.0	[illegible]	[illegible]
3024.5	[illegible]	[illegible]	3074.5	[illegible]	[illegible]	3124.5	[illegible]	[illegible]	3174.5	[illegible]	[illegible]
3025.0	[illegible]	[illegible]	3075.0	[illegible]	[illegible]	3125.0	[illegible]	[illegible]	3175.0	[illegible]	[illegible]
3025.5	[illegible]	[illegible]	3075.5	[illegible]	[illegible]	3125.5	[illegible]	[illegible]	3175.5	[illegible]	[illegible]
3026.0	[illegible]	[illegible]	3076.0	[illegible]	[illegible]	3126.0	[illegible]	[illegible]	3176.0	[illegible]	[illegible]
3026.5	[illegible]	[illegible]	3076.5	[illegible]	[illegible]	3126.5	[illegible]	[illegible]	3176.5	[illegible]	[illegible]
3027.0	[illegible]	[illegible]	3077.0	[illegible]	[illegible]	3127.0	[illegible]	[illegible]	3177.0	[illegible]	[illegible]
3027.5	[illegible]	[illegible]	3077.5	[illegible]	[illegible]	3127.5	[illegible]	[illegible]	3177.5	[illegible]	[illegible]
3028.0	[illegible]	[illegible]	3078.0	[illegible]	[illegible]	3128.0	[illegible]	[illegible]	3178.0	[illegible]	[illegible]
3028.5	[illegible]	[illegible]	3078.5	[illegible]	[illegible]	3128.5	[illegible]	[illegible]	3178.5	[illegible]	[illegible]
3029.0	[illegible]	[illegible]	3079.0	[illegible]	[illegible]	3129.0	[illegible]	[illegible]	3179.0	[illegible]	[illegible]
3029.5	[illegible]	[illegible]	3079.5	[illegible]	[illegible]	3129.5	[illegible]	[illegible]	3179.5	[illegible]	[illegible]
3030.0	[illegible]	[illegible]	3080.0	[illegible]	[illegible]	3130.0	[illegible]	[illegible]	3180.0	[illegible]	[illegible]
3030.5	[illegible]	[illegible]	3080.5	[illegible]	[illegible]	3130.5	[illegible]	[illegible]	3180.5	[illegible]	[illegible]
3031.0	[illegible]	[illegible]	3081.0	[illegible]	[illegible]	3131.0	[illegible]	[illegible]	3181.0	[illegible]	[illegible]
3031.5	[illegible]	[illegible]	3081.5	[illegible]	[illegible]	3131.5	[illegible]	[illegible]	3181.5	[illegible]	[illegible]
3032.0	[illegible]	[illegible]	3082.0	[illegible]	[illegible]	3132.0	[illegible]	[illegible]	3182.0	[illegible]	[illegible]
3032.5	[illegible]	[illegible]	3082.5	[illegible]	[illegible]	3132.5	[illegible]	[illegible]	3182.5	[illegible]	[illegible]
3033.0	[illegible]	[illegible]	3083.0	[illegible]	[illegible]	3133.0	[illegible]	[illegible]	3183.0	[illegible]	[illegible]
3033.5	[illegible]	[illegible]	3083.5	[illegible]	[illegible]	3133.5	[illegible]	[illegible]	3183.5	[illegible]	[illegible]
3034.0	[illegible]	[illegible]	3084.0	[illegible]	[illegible]	3134.0	[illegible]	[illegible]	3184.0	[illegible]	[illegible]
3034.5	[illegible]	[illegible]	3084.5	[illegible]	[illegible]	3134.5	[illegible]	[illegible]	3184.5	[illegible]	[illegible]
3035.0	[illegible]	[illegible]	3085.0	[illegible]	[illegible]	3135.0	[illegible]	[illegible]	3185.0	[illegible]	[illegible]
3035.5	[illegible]	[illegible]	3085.5	[illegible]	[illegible]	3135.5	[illegible]	[illegible]	3185.5	[illegible]	[illegible]
3036.0	[illegible]	[illegible]	3086.0	[illegible]	[illegible]	3136.0	[illegible]	[illegible]	3186.0	[illegible]	[illegible]
3036.5	[illegible]	[illegible]	3086.5	[illegible]	[illegible]	3136.5	[illegible]	[illegible]	3186.5	[illegible]	[illegible]
3037.0	[illegible]	[illegible]	3087.0	[illegible]	[illegible]	3137.0	[illegible]	[illegible]	3187.0	[illegible]	[illegible]
3037.5	[illegible]	[illegible]	3087.5	[illegible]	[illegible]	3137.5	[illegible]	[illegible]	3187.5	[illegible]	[illegible]
3038.0	[illegible]	[illegible]	3088.0	[illegible]	[illegible]	3138.0	[illegible]	[illegible]	3188.0	[illegible]	[illegible]
3038.5	[illegible]	[illegible]	3088.5	[illegible]	[illegible]	3138.5	[illegible]	[illegible]	3188.5	[illegible]	[illegible]
3039.0	[illegible]	[illegible]	3089.0	[illegible]	[illegible]	3139.0	[illegible]	[illegible]	3189.0	[illegible]	[illegible]
3039.5	[illegible]	[illegible]	3089.5	[illegible]	[illegible]	3139.5	[illegible]	[illegible]	3189.5	[illegible]	[illegible]

Table 5-4 $\frac{1}{u}\int_{\nu_1}^{\nu_2} -\ln T(\nu)\,d\nu$ (cont'd)

ν (cm^{-1})	2990	2990	ν (cm^{-1})	2990	2990	ν (cm^{-1})	2990	2990	ν (cm^{-1})	2990	2990
3190.0	1.6127011+003	1.7388365+003	3240.0	2.1052067+003	2.2560757+003	3290.0	[illegible]	[illegible]	3340.0	3.1108869+003	3.3321037+003
3190.5	1.6143693+003	1.7414315+003	3240.5	2.1116657+003	2.2632575+003	3290.5	2.6623094+003	2.8325716+003	3340.5	3.1156777+003	3.3367948+003
3191.0	1.6161080+003	1.7439667+003	3241.0	2.1167301+003	2.2659946+003	3291.0	2.6642427+003	[illegible]	3341.0	3.1187686+003	3.3426469+003
3191.5	1.6179418+003	1.7465020+003	3241.5	2.1230287+003	2.2696264+003	3291.5	2.6592218+003	2.8673591+003	3341.5	3.1215615+003	3.3460689+003
3192.0	1.6197902+003	1.7491942+003	3242.0	2.1239121+003	2.2740161+003	3292.0	2.6685654+003	[illegible]	3342.0	3.1244792+003	3.3476571+003
3192.5	1.6217673+003	1.7519497+003	3242.5	2.1277305+003	2.2787134+003	3292.5	2.6769267+003	2.8666705+003	3342.5	3.1276432+003	3.3520683+003
3193.0	1.6236102+003	1.7547614+003	3243.0	2.1315421+003	2.2835961+003	3293.0	2.6865987+003	2.8727527+003	3343.0	3.1304472+003	3.3541085+003
3193.5	1.6254712+003	1.7576318+003	3243.5	2.1359248+003	2.2891627+003	3293.5	2.6930452+003	2.8797824+003	3343.5	3.1327681+003	3.3571629+003
3194.0	1.6273782+003	1.7606343+003	3244.0	2.1413184+003	2.2957814+003	3294.0	2.6987265+003	2.8854589+003	3344.0	3.1360331+003	3.3597063+003
3194.5	1.6295611+003	1.7639255+003	3244.5	[illegible]	2.3043906+003	3294.5	2.7030704+003	2.8904511+003	3344.5	3.1368235+003	3.3624082+003
3195.0	1.6321381+003	1.7677074+003	3245.0	2.1661136+003	2.3153144+003	3295.0	2.7061062+003	2.8949967+003	3345.0	3.1337986+003	3.3651245+003
3195.5	1.6354322+003	1.7720107+003	3245.5	2.1837873+003	2.3265169+003	3295.5	2.7096433+003	2.8991901+003	3345.5	3.1428316+003	3.3677946+003
3196.0	1.6404397+003	1.7772132+003	3246.0	2.1944350+003	2.3356250+003	3296.0	2.7116865+003	2.9033729+003	3346.0	3.1430608+003	3.3734690+003
3196.5	1.6469157+003	1.7830058+003	3246.5	2.2005497+003	2.3426521+003	3296.5	2.7149977+003	2.9080159+003	3346.5	3.1451925+003	3.3732675+003
3197.0	1.6531776+003	[illegible]	3247.0	2.2048834+003	2.3482803+003	3297.0	2.7197113+003	2.9133163+003	3347.0	3.1475357+003	3.3760567+003
3197.5	1.6614215+003	1.7973391+003	3247.5	2.2086822+003	2.3530010+003	3297.5	2.7266713+003	2.9192719+003	3347.5	3.1496672+003	3.3788501+003
3198.0	1.6741693+003	1.8061499+003	3248.0	2.2119566+003	2.3570779+003	3298.0	2.7335585+003	2.9251677+003	3348.0	3.1519563+003	3.3816450+003
3198.5	1.6855825+003	1.8145411+003	3248.5	2.2146790+003	2.3609713+003	3298.5	2.7386110+003	2.9300970+003	3348.5	3.1543956+003	3.3844864+003
3199.0	1.6922537+003	1.8213389+003	3249.0	2.2171155+003	2.3643762+003	3299.0	2.7417467+003	2.9342570+003	3349.0	3.1567686+003	3.3872661+003
3199.5	1.6971572+003	1.8270308+003	3249.5	2.2195738+003	2.3674179+003	3299.5	2.7441846+003	2.9378914+003	3349.5	3.1590224+003	3.3900289+003
3200.0	1.7017744+003	1.8319335+003	3250.0	2.2219705+003	2.3703680+003	3300.0	2.7466018+003	2.9413321+003	3350.0	3.1612948+003	3.3930145+003
3200.5	1.7056464+003	1.8362572+003	3250.5	2.2242863+003	2.3735054+003	3300.5	2.7498093+003	2.9447028+003	3350.5	3.1636720+003	3.3963251+003
3201.0	1.7085753+003	1.8401233+003	3251.0	2.2266284+003	2.3767747+003	3301.0	2.7522623+003	2.9479273+003	3351.0	3.1662526+003	3.3998936+003
3201.5	1.7108867+003	1.8436196+003	3251.5	2.2291104+003	2.3801270+003	3301.5	2.7542820+003	2.9509716+003	3351.5	3.1692196+003	3.4031785+003
3202.0	1.7130363+003	1.8468767+003	3252.0	2.2318547+003	2.3837829+003	3302.0	2.7560724+003	2.9538490+003	3352.0	3.1719159+003	3.4066968+003
3202.5	1.7151975+003	1.8498510+003	3252.5	2.2347408+003	2.3879118+003	3302.5	2.7580235+003	2.9568586+003	3352.5	3.1743976+003	3.4122984+003
3203.0	1.7172631+003	1.8528933+003	3253.0	2.2382922+003	2.3929072+003	3303.0	2.7605070+003	2.9601319+003	3353.0	3.1773030+003	3.4162059+003
3203.5	1.7193702+003	1.8558823+003	3253.5	2.2436596+003	2.3995332+003	3303.5	2.7636829+003	2.9634382+003	3353.5	3.1809608+003	3.4186035+003
3204.0	1.7214225+003	1.8587130+003	3254.0	2.2546632+003	2.4084699+003	3304.0	2.7663934+003	2.9665147+003	3354.0	3.1850004+003	3.4230325+003
3204.5	1.7233204+003	1.8614069+003	3254.5	2.2697619+003	2.4181934+003	3304.5	2.7684527+003	2.9693515+003	3354.5	3.1890887+003	3.4282368+003
3205.0	1.7252012+003	1.8642650+003	3255.0	2.2787363+003	2.4261056+003	3305.0	2.7703602+003	2.9722682+003	3355.0	3.1960627+003	3.4367060+003
3205.5	1.7271781+003	1.8671055+003	3255.5	2.2839946+003	2.4322865+003	3305.5	2.7722094+003	2.9752024+003	3355.5	3.2026432+003	3.4430377+003
3206.0	1.7292115+003	1.8700076+003	3256.0	2.2886851+003	2.4380769+003	3306.0	2.7741586+003	2.9781227+003	3356.0	3.2133602+003	3.4515180+003
3206.5	1.7313049+003	1.8730557+003	3256.5	2.2944457+003	2.4440648+003	3306.5	2.7761487+003	2.9814638+003	3356.5	3.2213679+003	3.4591634+003
3207.0	1.7335790+003	1.8763480+003	3257.0	2.3005516+003	2.4501841+003	3307.0	2.7784467+003	[illegible]	3357.0	3.2290286+003	3.4664545+003
3207.5	1.7360453+003	1.8797332+003	3257.5	2.3084640+003	2.4566334+003	3307.5	2.7823901+003	2.9933212+003	3357.5	3.2361642+003	3.4731980+003
3208.0	1.7388768+003	1.8836664+003	3258.0	2.3156610+003	2.4622567+003	3308.0	[illegible]	[illegible]	3358.0	3.2408837+003	3.4788895+003
3208.5	1.7423773+003	1.8884630+003	3258.5	2.3196463+003	2.4671781+003	3308.5	2.7941302+003	3.0064859+003	3358.5	3.2467219+003	3.4841325+003
3209.0	1.7474699+003	1.8944384+003	3259.0	2.3220881+003	2.4715672+003	3309.0	2.8144211+003	3.0177722+003	3359.0	3.2480894+003	3.4902087+003
3209.5	1.7563471+003	1.9020659+003	3259.5	2.3260840+003	2.4751756+003	3309.5	2.8268076+003	3.0279941+003	3359.5	3.2551162+003	3.4954612+003
3210.0	1.7693181+003	1.9106564+003	3260.0	2.3300984+003	2.4808303+003	3310.0	2.8336427+003	3.0363951+003	3360.0	3.2629041+003	3.5035469+003
3210.5	1.7792812+003	1.9185579+003	3260.5	2.3361644+003	2.4864200+003	3310.5	2.8412872+003	3.0443987+003	3360.5	3.2696601+003	3.5137272+003
3211.0	1.7852344+003	1.9250786+003	3261.0	2.3422610+003	2.4918967+003	3311.0	2.8402553+003	3.0519063+003	3361.0	3.2753695+003	3.5186371+003
3211.5	1.7896101+003	1.9306350+003	3261.5	[illegible]	[illegible]	3311.5	[illegible]	[illegible]	3361.5	[illegible]	[illegible]
3212.0	1.7936009+003	1.9356376+003	3262.0	2.3491259+003	[illegible]	3312.0	[illegible]	[illegible]	3362.0	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Table 5-4 $\frac{1}{u}\int_{\nu_0}^{\nu} -\ln T(\nu)\,d\nu$ (cont'd)

Sam. No.	30	31
p(atm)	8.42 $\times 10^{-1}$	8.42 $\times 10^{-3}$
P_e(atm)	5.03 $\times 10^{0}$	1.003 $\times 10^{1}$
u(gm/cm^2)	2.05 $\times 10^{-2}$	2.05 $\times 10^{-2}$
ν (cm^{-1})	ν'=2990 cm^{-1}	ν'=2990 cm^{-1}
3390.0	3.6022307+003	3.8495620+003
3390.5	3.6055945+003	3.8530338+003
3391.0	3.6088913+003	3.8590964+003
3391.5	3.6140062+003	3.8660014+003
3392.0	3.6219644+003	3.8755581+003
3392.5	3.6349714+003	3.8899927+003
3393.0	3.6600249+003	3.9087176+003
3393.5	3.6864673+003	3.9268635+003
3394.0	3.6986028+003	3.9390084+003
3394.5	3.7048026+003	3.9472674+003
3395.0	3.7094274+003	3.9539371+003
3395.5	3.7138020+003	3.9602946+003
3396.0	3.7189316+003	3.9674185+003
3396.5	3.7263238+003	3.9765378+003
3397.0	3.7400983+003	3.9885357+003
3397.5	3.7610740+003	4.0016708+003
3398.0	3.7746263+003	4.0123944+003
3398.5	3.7817518+003	4.0200701+003
3399.0	3.7867479+003	4.0260935+003
3399.5	3.7907649+003	4.0311001+003
3400.0	3.7943700+003	4.0358201+003
3400.5	3.7982093+003	4.0409830+003
3401.0	3.8041145+003	4.0476557+003
3401.5	3.8108429+003	4.0540309+003
3402.0	3.8160491+003	4.0592772+003
3402.5	3.8208863+003	4.0642943+003
3403.0	3.8259349+003	4.0696660+003
3403.5	3.8330035+003	4.0754211+003
3404.0	3.8402714+003	4.0811009+003
3404.5	3.8451176+003	4.0859864+003
3405.0	3.8485565+003	4.0900118+003
3405.5	3.8514215+003	4.0935530+003
3406.0	3.8541319+003	4.0967627+003
3406.5	3.8570727+003	4.1000090+003
3407.0	3.8601130+003	4.1031641+003
3407.5	3.8628446+003	4.1062440+003
3408.0	3.8654452+003	4.1093137+003
3408.5	3.8683904+003	4.1125308+003
3409.0	3.8718806+003	4.1156874+003
3409.5	3.8750918+003	4.1187627+003
3410.0	3.8778411+003	4.1217538+003
3410.5	3.8803690+003	4.1247088+003
3411.0	3.8827439+003	4.1277398+003
3411.5	3.8852622+003	4.1308635+003
3412.0	3.8880764+003	4.1342238+003
3412.5	3.8916181+003	4.1378365+003
3413.0	3.8957133+003	4.1419026+003
3413.5	3.9001933+003	4.1461437+003
3414.0	3.9041433+003	4.1503808+003
3414.5	3.9074256+003	4.1541965+003
3415.0	3.9103168+003	4.1579370+003
3415.5	3.9134306+003	4.1618206+003
3416.0	3.9167346+003	4.1659488+003
3416.5	3.9200772+003	4.1703466+003
3417.0	3.9235459+003	4.1750785+003
3417.5	3.9274165+003	4.1805117+003
3418.0	3.9321687+003	4.1870255+003
3418.5	3.9389274+003	4.1950776+003
3419.0	3.9476687+003	4.2055517+003
3419.5	3.9599723+003	4.2198255+003
3420.0	3.9799455+003	4.2395747+003
3420.5	4.0134640+003	4.2642196+003
3421.0	4.0485861+003	4.2890150+003
3421.5	4.0718407+003	4.3103385+003
3422.0	4.0938161+003	4.3295599+003
3422.5	4.1138050+003	4.3464109+003
3423.0	4.1282792+003	4.3615452+003
3423.5	4.1426761+003	4.3754413+003
3424.0	4.1508618+003	4.3846124+003
3424.5	4.1565363+003	4.3913398+003
3425.0	4.1606420+003	4.3968748+003
3425.5	4.1642817+003	4.4019081+003
3426.0	4.1677772+003	4.4067911+003
3426.5	4.1715253+003	4.4113190+003
3427.0	4.1757731+003	4.4174092+003
3427.5	4.1813262+003	4.4235677+003
3428.0	4.1891038+003	4.4301392+003
3428.5	4.1959422+003	4.4363853+003
3429.0	4.2006006+003	4.4419330+003
3429.5	4.2047503+003	4.4473257+003
3430.0	4.2091421+003	4.4531989+003
3430.5	4.2148340+003	4.4600094+003
3431.0	4.2236085+003	4.4677186+003
3431.5	4.2341561+003	4.4756278+003
3432.0	4.2418750+003	4.4820709+003
3432.5	4.2479380+003	4.4894895+003
3433.0	4.2544470+003	4.4958357+003
3433.5	4.2602636+003	4.5018510+003
3434.0	4.2645554+003	4.5070118+003
3434.5	4.2682201+003	4.5117253+003
3435.0	4.2714376+003	4.5162356+003
3435.5	4.2746640+003	4.5209767+003
3436.0	4.2783673+003	4.5260288+003
3436.5	4.2834437+003	4.5320448+003
3437.0	4.2881609+003	4.5377659+003
3437.5	4.2914447+003	4.5434049+003
3438.0	4.2974630+003	4.5495616+003
3438.5	4.3032605+003	4.5565380+003
3439.0	4.3093100+003	4.5636792+003
3439.5	4.3144546+003	4.5705467+003
3440.0	4.3196834+003	4.5771674+003
3440.5	4.3262453+003	4.5862516+003
3441.0	4.3333598+003	4.5958403+003
3441.5	4.3419159+003	4.6077896+003
3442.0	4.3556487+003	4.6236518+003
3442.5	4.3813698+003	4.6440386+003
3443.0	4.4121939+003	4.6650896+003
3443.5	4.4330810+003	4.6832478+003
3444.0	4.4456667+003	4.6983382+003
3444.5	4.4552861+003	4.7128054+003
3445.0	4.4670137+003	4.7312113+003
3445.5	4.4896503+003	4.7550158+003
3446.0	4.5090953+003	4.7788917+003
3446.5	4.5305458+003	4.8078835+003
3447.0	4.5703325+003	4.8490151+003
3447.5	4.6365524+003	4.8984587+003
3448.0	4.6917388+003	4.9404715+003
3448.5	4.7216922+003	4.9693494+003
3449.0	4.7399308+003	4.9890102+003
3449.5	4.7510710+003	5.0031003+003
3450.0	4.7585631+003	5.0134892+003
3450.5	4.7644590+003	5.0217914+003
3451.0	4.7692589+003	5.0288922+003
3451.5	4.7734437+003	5.0351216+003
3452.0	4.7773587+003	5.0407540+003
3452.5	4.7810848+003	5.0461624+003
3453.0	4.7848979+003	5.0514397+003
3453.5	4.7890035+003	5.0566444+003
3454.0	4.7925710+003	5.0616694+003
3454.5	4.7959966+003	5.0666064+003
3455.0	4.7996477+003	5.0716903+003
3455.5	4.8041485+003	5.0777494+003
3456.0	4.8103227+003	5.0841370+003
3456.5	4.8171655+003	5.0908236+003
3457.0	4.8231407+003	5.0974223+003
3457.5	4.8281626+003	5.1037337+003
3458.0	4.8331758+003	5.1103574+003
3458.5	4.8393064+003	5.1189371+003
3459.0	4.8490123+003	5.1287060+003
3459.5	4.8556553+003	5.1369706+003
3460.0	4.8612956+003	5.1452410+003
3460.5	4.8697441+003	5.1553338+003
3461.0	4.8833300+003	5.1702273+003
3461.5	4.8987377+003	5.1650437+003
3462.0	4.9166727+003	5.2010134+003
3462.5	4.9354933+003	5.2184962+003
3463.0	4.9610122+003	5.2366679+003
3463.5	4.9798826+003	5.2515175+003
3464.0	4.9895249+003	5.2626913+003
3464.5	4.9965943+003	5.2718860+003
3465.0	5.0034440+003	5.2804190+003
3465.5	5.0091487+003	5.2888057+003
3466.0	5.0162307+003	5.2991893+003
3466.5	5.0286287+003	5.3149087+003
3467.0	5.0542093+003	5.3356174+003
3467.5	5.0727697+003	5.3504713+003
3468.0	5.0807656+003	5.3597163+003
3468.5	5.0864947+003	5.3668609+003
3469.0	5.0916128+003	5.3732577+003
3469.5	5.0964090+003	5.3794813+003
3470.0	5.1017677+003	5.3862239+003
3470.5	5.1097808+003	5.3938377+003
3471.0	5.1175506+003	5.4016307+003
3471.5	5.1233776+003	5.4087783+003
3472.0	5.1290499+003	5.4157535+003
3472.5	5.1342681+003	5.4227776+003
3473.0	5.1399650+003	5.4301930+003
3473.5	5.1472186+003	5.4385660+003
3474.0	5.1555075+003	5.4486567+003
3474.5	5.1665322+003	5.4615410+003
3475.0	5.1861221+003	5.4768844+003
3475.5	5.2066274+003	5.4915192+003
3476.0	5.2186550+003	5.5032982+003
3476.5	5.2260154+003	5.5127174+003
3477.0	5.2317529+003	5.5210302+003
3477.5	5.2369505+003	5.5288462+003
3478.0	5.2421377+003	5.5367330+003
3478.5	5.2476552+003	5.5451979+003
3479.0	5.2538691+003	5.5551988+003
3479.5	5.2630104+003	5.5681849+003
3480.0	5.2761862+003	5.5860003+003
3480.5	5.3003443+003	5.6115267+003
3481.0	5.3368267+003	5.6412875+003
3481.5	5.3646834+003	5.6700447+003
3482.0	5.4002614+003	5.7029196+003
3482.5	5.4539080+003	5.7405055+003
3483.0	5.4917796+003	5.7700773+003
3483.5	5.5111406+003	5.7914617+003
3484.0	5.5249706+003	5.8085060+003
3484.5	5.5375828+003	5.8235745+003
3485.0	5.5485698+003	5.8379578+003
3485.5	5.5602862+003	5.8530726+003
3486.0	5.5759111+003	5.8694863+003
3486.5	5.5908586+003	5.8861459+003
3487.0	5.6043465+003	5.9035263+003
3487.5	5.6197996+003	5.9259376+003
3488.0	5.6518401+003	5.9581878+003
3488.5	5.6978520+003	5.9900939+003
3489.0	5.7217338+003	6.0118230+003
3489.5	5.7331801+003	6.0263408+003
3490.0	5.7409486+003	6.0376298+003
3490.5	5.7478572+003	6.0480145+003
3491.0	5.7566137+003	6.0589079+003
3491.5	5.7672012+003	6.0699230+003
3492.0	5.7748715+003	6.0736902+003
3492.5	5.7812046+003	6.0887193+003
3493.0	5.7871281+003	6.0977760+003
3493.5	5.7938052+003	6.1074565+003
3494.0	5.8014681+003	6.1182853+003
3494.5	5.8106791+003	6.1316504+003
3495.0	5.8258436+003	6.1491613+003
3495.5	5.8499959+003	6.1706264+003
3496.0	5.8729462+003	6.1940082+003
3496.5	5.8998272+003	6.2186230+003
3497.0	5.9333183+003	6.2426403+003
3497.5	5.9553267+003	6.2628149+003
3498.0	5.9684374+003	6.2791863+003
3498.5	5.9785350+003	6.2935900+003
3499.0	5.9883261+003	6.3083736+003
3499.5	6.0005944+003	6.3255499+003
3500.0	6.0187522+003	6.3457773+003
3500.5	6.0360736+003	6.3683549+003
3501.0	6.0556793+003	6.3954097+003
3501.5	6.0870582+003	6.4307469+003
3502.0	6.1310662+003	6.4756259+003
3502.5	6.1866832+003	6.5322061+003
3503.0	6.2584856+003	6.5943922+003
3503.5	6.3385341+003	6.6558422+003
3504.0	6.4055652+003	6.7157742+003
3504.5	6.4652791+003	6.7688951+003
3505.0	6.5097191+003	6.8084367+003
3505.5	6.5414946+003	6.8398472+003
3506.0	6.5647567+003	6.8663038+003
3506.5	6.5826071+003	6.8889709+003
3507.0	6.5975562+003	6.9099072+003
3507.5	6.6112407+003	6.9310149+003
3508.0	6.6257816+003	6.9547239+003
3508.5	6.6463276+003	6.9854477+003
3509.0	6.6834970+003	7.0277140+003
3509.5	6.7445253+003	7.0822676+003
3510.0	6.8182218+003	7.1385805+003
3510.5	6.8641238+003	7.1825728+003
3511.0	6.8949795+003	7.2162094+003
3511.5	6.9210023+003	7.2438403+003
3512.0	6.9455313+003	7.2677156+003
3512.5	6.9640336+003	7.2882602+003
3513.0	6.9796475+003	7.3065673+003
3513.5	6.9942557+003	7.3232620+003
3514.0	7.0066479+003	7.3383510+003
3514.5	7.0176853+003	7.3520980+003
3515.0	7.0265015+003	7.3647885+003
3515.5	7.0338651+003	7.3765182+003
3516.0	7.0411063+003	7.3882077+003
3516.5	7.0487626+003	7.4008340+003
3517.0	7.0582644+003	7.4159932+003
3517.5	7.0743736+003	7.4347008+003
3518.0	7.0916313+003	7.4543628+003
3518.5	7.1071646+003	7.4743417+003
3519.0	7.1285918+003	7.4959974+003
3519.5	7.1535868+003	7.5187495+003
3520.0	7.1731207+003	7.5409055+003
3520.5	7.1892265+003	7.5630679+003
3521.0	7.2059377+003	7.5875206+003
3521.5	7.2273162+003	7.6171567+003
3522.0	7.2578157+003	7.6554987+003
3522.5	7.3110032+003	7.7072082+003
3523.0	7.3868002+003	7.7686792+003
3523.5	7.4614366+003	7.8357637+003
3524.0	7.5370773+003	7.9066504+003
3524.5	7.6010283+003	7.9694910+003
3525.0	7.6480415+003	8.0282126+003
3525.5	7.7027904+003	8.0974759+003
3526.0	7.7677108+003	8.1641808+003
3526.5	7.8147229+003	8.2202792+003
3527.0	7.8778103+003	8.2794502+003
3527.5	7.9600259+003	8.3440923+003
3528.0	8.0350956+003	8.4087852+003
3528.5	8.1014590+003	8.4722792+003
3529.0	8.1754230+003	8.5358967+003
3529.5	8.2487205+003	8.5942492+003
3530.0	8.2947787+003	8.6418423+003
3530.5	8.3314623+003	8.6836630+003
3531.0	8.3743517+003	8.7224968+003
3531.5	8.4110488+003	8.7558038+003
3532.0	8.4354049+003	8.7823921+003
3532.5	8.4507225+003	8.8035847+003
3533.0	8.4624181+003	8.8219876+003
3533.5	8.4730996+003	8.8391920+003
3534.0	8.4837150+003	8.8560913+003
3534.5	8.4951613+003	8.8744796+003
3535.0	8.5086209+003	8.8961308+003
3535.5	8.5281658+003	8.9249791+003
3536.0	8.5657891+003	8.9663775+003
3536.5	8.6302786+003	9.0163268+003
3537.0	8.6810374+003	9.0594827+003
3537.5	8.7104895+003	9.0914171+003
3538.0	8.7283284+003	9.1160977+003
3538.5	8.7426932+003	9.1371606+003
3539.0	8.7561972+003	9.1566420+003
3539.5	8.7695454+003	9.1756910+003
3540.0	8.7833036+003	9.1950809+003
3540.5	8.7977803+003	9.2150269+003
3541.0	8.8118116+003	9.2359956+003
3541.5	8.8259566+003	9.2583273+003
3542.0	8.8428016+003	9.2851479+003
3542.5	8.8677798+003	9.3201476+003
3543.0	8.9082260+003	9.3646081+003
3543.5	8.9608754+003	9.4192388+003
3544.0	9.0247503+003	9.4825602+003
3544.5	9.0929865+003	9.5540590+003
3545.0	9.1824291+003	9.6409129+003
3545.5	9.2960081+003	9.7336861+003
3546.0	9.3886330+003	9.8241639+003
3546.5	9.4680540+003	9.9180597+003
3547.0	9.5701886+003	1.0018131+004
3547.5	9.6755293+003	1.0108632+004
3548.0	9.7470203+003	1.0178992+004
3548.5	9.8047842+003	1.0236126+004
3549.0	9.8489161+003	1.0283346+004
3549.5	9.8794484+003	1.0324536+004
3550.0	9.9072758+003	1.0364254+004
3550.5	9.9403862+003	1.0406687+004
3551.0	9.9766191+003	1.0454376+004
3551.5	1.0021783+004	1.0512240+004
3552.0	1.0096275+004	1.0584443+004
3552.5	1.0206305+004	1.06662[illegible]
3553.0	1.0296205+004	1.07418[illegible]
3553.5	1.0358603+004	1.08095[illegible]
3554.0	1.0427885+004	1.0872895+004
3554.5	1.0479804+004	1.0923437+004
3555.0	1.0509048+004	1.0961561+004
3555.5	1.0530082+004	1.0992983+004
3556.0	1.0548553+004	1.1021843+004
3556.5	1.0568306+004	1.1050934+004
3557.0	1.0594389+004	1.1081913+004
3557.5	1.0625507+004	1.1114012+004
3558.0	1.0651482+004	1.1146243+004
3558.5	1.0673921+004	1.1179753+004
3559.0	1.0696487+004	1.1218179+004
3559.5	1.0732830+004	1.1266058+004
3560.0	1.0790459+004	1.1327791+004
3560.5	1.0876888+004	1.1398656+004
3561.0	1.0942604+004	1.1466968+004
3561.5	1.0993864+004	1.1526427+004
3562.0	1.1044201+004	1.1590520+004
3562.5	1.1111838+004	1.1662464+004
3563.0	1.1183320+004	1.1739995+004
3563.5	1.1268989+004	1.1824553+004
3564.0	1.1370308+004	1.1914582+004
3564.5	1.1465134+004	1.2009765+004
3565.0	1.1570571+004	1.2118269+004
3565.5	1.1714231+004	1.2228210+004
3566.0	1.1887584+004	1.2340433+004
3566.5	1.2046918+004	1.2453832+004
3567.0	1.2206890+004	1.2562561+004
3567.5	1.2357244+004	1.2670802+004
3568.0	1.2521413+004	1.2786768+004
3568.5	1.2706279+004	1.2905471+004
3569.0	1.2869842+004	1.3020579+004
3569.5	1.2983246+004	1.3127777+004
3570.0	1.3058890+004	1.3221837+004
3570.5	1.3131648+004	1.3302446+004
3571.0	1.3201696+004	1.3373830+004
3571.5	1.3246524+004	1.3432222+004
3572.0	1.3277952+004	1.3480126+004
3572.5	1.3305746+004	1.3523871+004
3573.0	1.3335477+004	1.3567049+004
3573.5	1.3369576+004	1.3611119+004
3574.0	1.3407934+004	1.3657544+004
3574.5	1.3456136+004	1.3706201+004
3575.0	1.3508599+004	1.3755018+004
3575.5	1.3550007+004	1.3800986+004
3576.0	1.3583185+004	1.3845908+004
3576.5	1.3620539+004	1.3893536+004
3577.0	1.3674145+004	1.3945605+004
3577.5	1.3731670+004	1.3996934+004
3578.0	1.3772590+004	1.4044092+004
3578.5	1.3804595+004	1.4089403+004
3579.0	1.3838770+004	1.4137465+004
3579.5	1.3885642+004	1.4194610+004
3580.0	1.3953059+004	1.4261286+004

Table 5-5

Sam. No.	32	32	32	32	32	32
p(atm)	8.29 $\times 10^{-5}$	8.29 $\times 10^{-5}$	8.29 $\times 10^{-5}$	8.29 $\times 10^{-5}$	8.29 $\times 10^{-5}$	8.29 $\times 10^{-5}$
P_e(atm)	1.003 $\times 10^{1}$	1.003 $\times 10^{1}$	1.003 $\times 10^{1}$	1.003 $\times 10^{1}$	1.003 $\times 10^{1}$	1.003 $\times 10^{1}$
u(gm/cm^2)	2.56 $\times 10^{-7}$	2.56 $\times 10^{-7}$	2.56 $\times 10^{-7}$	2.56 $\times 10^{-7}$	2.56 $\times 10^{-7}$	2.56 $\times 10^{-7}$

ν (cm^{-1})	λ (micron)	T $\times$ 100
3430.0	2.91545	97.9
3430.2	2.91528	97.6
3430.4	2.91511	97.5
3430.6	2.91494	97.4
3430.8	2.91477	97.2
3431.0	2.91460	96.9
3431.2	2.91443	96.7
3431.4	2.91426	96.9
3431.6	2.91409	97.1
3431.8	2.91392	97.0
3432.0	2.91375	97.2
3432.2	2.91358	97.5
3432.4	2.91341	97.4
3432.6	2.91324	97.4
3432.8	2.91307	97.7
3433.0	2.91290	97.7
3433.2	2.91273	98.0
3433.4	2.91256	98.0
3433.6	2.91240	98.0
3433.8	2.91223	98.2
3434.0	2.91206	98.1
3434.2	2.91189	98.4
3434.4	2.91172	98.4
3434.6	2.91155	98.6
3434.8	2.91138	98.7
3435.0	2.91121	98.6
3435.2	2.91104	98.7
3435.4	2.91087	98.5
3435.6	2.91070	98.6
3435.8	2.91053	98.6
3436.0	2.91036	98.3
3436.2	2.91019	98.1
3436.4	2.91002	98.0
3436.6	2.90985	97.8
3436.8	2.90968	98.0
3437.0	2.90951	98.2
3437.2	2.90934	98.3
3437.4	2.90918	98.1
3437.6	2.90901	98.1
3437.8	2.90884	98.1
3438.0	2.90867	97.9
3438.2	2.90850	97.8
3438.4	2.90833	97.5
3438.6	2.90816	97.3
3438.8	2.90799	97.3
3439.0	2.90782	97.4
3439.2	2.90765	97.7
3439.4	2.90748	97.7
3439.6	2.90731	97.6
3439.8	2.90715	97.6
3440.0	2.90698	97.5
3440.2	2.90681	97.3
3440.4	2.90664	96.9
3440.6	2.90647	96.9
3440.8	2.90630	96.6
3441.0	2.90613	96.4
3441.2	2.90596	95.7
3441.4	2.90579	95.3
3441.6	2.90563	94.6
3441.8	2.90546	93.6
3442.0	2.90529	92.4
3442.2	2.90512	91.6
3442.4	2.90495	90.9
3442.6	2.90478	90.5
3442.8	2.90461	90.4
3443.0	2.90444	91.2
3443.2	2.90428	91.9
3443.4	2.90411	92.7
3443.6	2.90394	93.4
3443.8	2.90377	93.9
3444.0	2.90360	94.0
3444.2	2.90343	94.3
3444.4	2.90326	94.2
3444.6	2.90309	93.7
3444.8	2.90293	93.0
3445.0	2.90276	91.3
3445.2	2.90259	89.4
3445.4	2.90242	88.7
3445.6	2.90225	89.1
3445.8	2.90208	89.9
3446.0	2.90192	89.8
3446.2	2.90175	88.8
3446.4	2.90158	87.4
3446.6	2.90141	85.1
3446.8	2.90124	82.6
3447.0	2.90107	79.5
3447.2	2.90091	76.9
3447.4	2.90074	75.7
3447.6	2.90057	76.2
3447.8	2.90040	78.5
3448.0	2.90023	81.6
3448.2	2.90006	84.7
3448.4	2.89990	87.1
3448.6	2.89973	89.1
3448.8	2.89956	91.1
3449.0	2.89939	92.3
3449.2	2.89922	93.4
3449.4	2.89905	94.4
3449.6	2.89889	95.1
3449.8	2.89872	95.4

ν (cm^{-1})	λ (micron)	T $\times$ 100
3450.0	2.89855	96.5
3450.2	2.89838	96.7
3450.4	2.89821	97.3
3450.6	2.89805	97.4
3450.8	2.89788	97.5
3451.0	2.89771	97.8
3451.2	2.89754	98.1
3451.4	2.89737	98.1
3451.6	2.89721	98.4
3451.8	2.89704	98.6
3452.0	2.89687	98.7
3452.2	2.89670	98.9
3452.4	2.89654	98.9
3452.6	2.89637	99.0
3452.8	2.89620	98.9
3453.0	2.89603	98.9
3453.2	2.89586	98.9
3453.4	2.89570	98.9
3453.6	2.89553	99.0
3453.8	2.89536	98.9
3454.0	2.89519	99.0
3454.2	2.89503	99.1
3454.4	2.89486	99.1
3454.6	2.89469	99.0
3454.8	2.89452	99.0
3455.0	2.89436	99.0
3455.2	2.89419	99.0
3455.4	2.89402	98.8
3455.6	2.89385	98.5
3455.8	2.89369	98.5
3456.0	2.89352	98.3
3456.2	2.89335	98.5
3456.4	2.89318	98.6
3456.6	2.89302	98.5
3456.8	2.89285	98.7
3457.0	2.89268	96.6
3457.2	2.89251	98.6
3457.4	2.89235	98.7
3457.6	2.89218	98.9
3457.8	2.89201	99.0
3458.0	2.89184	98.8
3458.2	2.89168	98.6
3458.4	2.89151	97.8
3458.6	2.89134	97.0
3458.8	2.89118	96.8
3459.0	2.89101	97.3
3459.2	2.89084	97.8
3459.4	2.89067	98.2
3459.6	2.89051	98.3
3459.8	2.89034	98.0
3460.0	2.89017	97.9
3460.2	2.89001	97.3
3460.4	2.88984	96.6
3460.6	2.88967	95.5
3460.8	2.88951	95.0
3461.0	2.88934	95.3
3461.2	2.88917	95.0
3461.4	2.88900	94.9
3461.6	2.88884	94.5
3461.8	2.88867	94.2
3462.0	2.88850	94.0
3462.2	2.88834	93.6
3462.4	2.88817	93.3
3462.6	2.88800	92.8
3462.8	2.88784	92.7
3463.0	2.88767	93.1
3463.2	2.88750	93.7
3463.4	2.88734	[illegible]
3463.6	2.88717	95.5
3463.8	2.88700	96.5
3464.0	2.88684	96.9
3464.2	2.88667	97.5
3464.4	2.88650	97.6
3464.6	2.88634	97.8
3464.8	2.88617	97.9
3465.0	2.88600	98.2
3465.2	2.88584	98.3
3465.4	2.88567	98.2
3465.6	2.88550	98.0
3465.8	2.88534	97.4
3466.0	2.88517	96.8
3466.2	2.88500	95.6
3466.4	2.88484	94.3
3466.6	2.88467	92.2
3466.8	2.88450	90.9
3467.0	2.88434	91.0
3467.2	2.88417	92.5
3467.4	2.88401	94.6
3467.6	2.88384	96.0
3467.8	2.88367	97.3
3468.0	2.88351	98.0
3468.2	2.88334	98.3
3468.4	2.88317	98.7
3468.6	2.88301	98.8
3468.8	2.88284	99.0
3469.0	2.88268	99.2
3469.2	2.88251	99.2
3469.4	2.88234	99.3
3469.6	2.88218	99.2
3469.8	2.88201	99.2

ν (cm^{-1})	λ (micron)	T $\times$ 100
3470.0	2.88184	98.9
3470.2	2.88168	98.5
3470.4	2.88151	98.4
3470.6	2.88135	98.6
3470.8	2.88118	98.7
3471.0	2.88101	98.6
3471.2	2.88085	98.9
3471.4	2.88068	98.8
3471.6	2.88052	98.9
3471.8	2.88035	98.9
3472.0	2.88018	99.1
3472.2	2.88002	99.1
3472.4	2.87985	99.1
3472.6	2.87969	98.9
3472.8	2.87952	98.7
3473.0	2.87936	98.6
3473.2	2.87919	98.2
3473.4	2.87902	98.3
3473.6	2.87886	97.9
3473.8	2.87869	97.7
3474.0	2.87853	97.1
3474.2	2.87836	96.7
3474.4	2.87819	96.0
3474.6	2.87803	95.4
3474.8	2.87786	94.7
3475.0	2.87770	94.3
3475.2	2.87753	94.2
3475.4	2.87737	94.7
3475.6	2.87720	95.4
3475.8	2.87704	96.0
3476.0	2.87687	96.5
3476.2	2.87670	97.1
3476.4	2.87654	97.4
3476.6	2.87637	97.8
3476.8	2.87621	97.9
3477.0	2.87604	98.3
3477.2	2.87588	98.2
3477.4	2.87571	98.2
3477.6	2.87555	98.3
3477.8	2.87538	98.2
3478.0	2.87522	97.9
3478.2	2.87505	97.8
3478.4	2.87489	97.9
3478.6	2.87472	97.7
3478.8	2.87455	97.3
3479.0	2.87439	97.0
3479.2	2.87422	96.3
3479.4	2.87406	[illegible]
3479.6	2.87389	94.7
3479.8	2.87373	93.8
3480.0	2.87356	92.7
3480.2	2.87340	90.8
3480.4	2.87323	88.5
3480.6	2.87307	87.0
3480.8	2.87290	86.6
3481.0	2.87274	87.3
3481.2	2.87257	88.4
3481.4	2.87241	88.3
3481.6	2.87224	88.1
3481.8	2.87208	86.7
3482.0	2.87191	85.4
3482.2	2.87175	83.4
3482.4	2.87158	81.9
3482.6	2.87142	83.2
3482.8	2.87125	86.3
3483.0	2.87109	88.6
3483.2	2.87092	90.2
3483.4	2.87076	91.9
3483.6	2.87059	92.7
3483.8	2.87043	93.7
3484.0	2.87026	94.1
3484.2	2.87010	94.7
3484.4	2.86993	94.9
3484.6	2.86977	95.1
3484.8	2.86961	94.9
3485.0	2.86944	95.1
3485.2	2.86928	95.0
3485.4	2.86911	94.9
3485.6	2.86895	94.3
3485.8	2.86878	94.1
3486.0	2.86862	93.8
3486.2	2.86845	93.9
3486.4	2.86829	94.1
3486.6	2.86812	93.8
3486.8	2.86796	93.9
3487.0	2.86779	93.3
3487.2	2.86763	92.5
3487.4	2.86747	91.0
3487.6	2.86730	89.1
3487.8	2.86714	86.9
3488.0	2.86697	85.2
3488.2	2.86681	84.6
3488.4	2.86664	85.8
3488.6	2.86648	88.1
3488.8	2.86632	90.5
3489.0	2.86615	92.8
3489.2	2.86599	93.7
3489.4	2.86582	95.1
3489.6	2.86566	96.0
3489.8	2.86549	96.6

ν (cm^{-1})	λ (micron)	T $\times$ 100
3490.0	2.86533	97.0
3490.2	2.86517	97.2
3490.4	2.86500	97.5
3490.6	2.86484	97.4
3490.8	2.86467	97.2
3491.0	2.86451	97.0
3491.2	2.86434	96.7
3491.4	2.86418	97.2
3491.6	2.86402	97.1
3491.8	2.86385	97.5
3492.0	2.86369	[illegible]
3492.2	2.86352	98.1
3492.4	2.86336	98.2
3492.6	2.86320	98.2
3492.8	2.86303	98.1
3493.0	2.86287	98.1
3493.2	2.86270	98.1
3493.4	2.86254	97.8
3493.6	2.86238	97.7
3493.8	2.86221	97.5
3494.0	2.86205	97.0
3494.2	2.86189	96.7
3494.4	2.86172	96.2
3494.6	2.86156	95.3
3494.8	2.86139	94.4
3495.0	2.86123	93.5
3495.2	2.86107	92.6
3495.4	2.86091	91.8
3495.6	2.86074	91.5
3495.8	2.86058	91.3
3496.0	2.86041	91.3
3496.2	2.86025	90.8
3496.4	2.86008	90.5
3496.6	2.85992	90.3
3496.8	2.85976	90.2
3497.0	2.85959	90.7
3497.2	2.85943	91.6
3497.4	2.85927	92.5
3497.6	2.85910	93.5
3497.8	2.85894	94.1
3498.0	2.85878	94.7
3498.2	2.85861	95.2
3498.4	2.85845	95.3
3498.6	2.85829	95.5
3498.8	2.85812	95.4
3499.0	2.85796	95.3
3499.2	2.85780	[illegible]
3499.4	2.85763	94.1
3499.6	2.85747	93.5
3499.8	2.85731	92.9
3500.0	2.85714	92.6
3500.2	2.85698	92.2
3500.4	2.85682	91.8
3500.6	2.85665	91.2
3500.8	2.85649	90.1
3501.0	2.85633	88.7
3501.2	2.85616	87.2
3501.4	2.85600	85.3
3501.6	2.85584	83.5
3501.8	2.85567	81.7
3502.0	2.85551	79.5
3502.2	2.85535	76.4
3502.4	2.85519	73.5
3502.6	2.85502	72.2
3502.8	2.85486	72.1
3503.0	2.85470	72.2
3503.2	2.85453	72.2
3503.4	2.85437	72.7
3503.6	2.85421	73.3
3503.8	2.85404	73.5
3504.0	2.85388	72.0
3504.2	2.85372	71.6
3504.4	2.85356	75.0
3504.6	2.85339	79.7
3504.8	2.85323	82.6
3505.0	2.85307	84.5
3505.2	2.85290	85.8
3505.4	2.85274	86.9
3505.6	2.85258	88.1
3505.8	2.85242	89.2
3506.0	2.85225	90.2
3506.2	2.85209	91.0
3506.4	2.85193	91.5
3506.6	2.85177	92.0
3506.8	2.85160	92.3
3507.0	2.85144	92.6
3507.2	2.85128	92.6
3507.4	2.85111	92.3
3507.6	2.85095	92.1
3507.8	2.85079	91.5
3508.0	2.85063	90.5
3508.2	2.85046	[illegible]
3508.4	2.85030	87.5
3508.6	2.85014	85.3
3508.8	2.84998	82.8
3509.0	2.84981	80.3
3509.2	2.84965	77.5
3509.4	2.84949	75.2
3509.6	2.84933	73.5
3509.8	2.84917	73.7

ν (cm^{-1})	λ (micron)	T $\times$ 100
3510.0	2.84900	75.9
3510.2	2.84884	79.0
3510.4	2.84868	81.7
3510.6	2.84852	84.1
3510.8	2.84835	85.7
3511.0	2.84819	87.4
3511.2	2.84803	88.3
3511.4	2.84787	89.2
3511.6	2.84770	90.0
3511.8	2.84754	90.7
3512.0	2.84738	91.3
3512.2	2.84722	91.0
3512.4	2.84706	92.4
3512.6	2.84689	93.0
3512.8	2.84673	93.3
3513.0	2.84657	93.8
3513.2	2.84641	94.1
3513.4	2.84625	94.6
3513.6	2.84608	94.9
3513.8	2.84592	95.2
3514.0	2.84576	95.2
3514.2	2.84560	95.5
3514.4	2.84544	95.8
3514.6	2.84527	96.0
3514.8	2.84511	96.3
3515.0	2.84495	96.5
3515.2	2.84479	96.7
3515.4	2.84463	97.0
3515.6	2.84446	96.8
3515.8	2.84430	96.7
3516.0	2.84414	96.6
3516.2	2.84398	96.5
3516.4	2.84382	96.3
3516.6	2.84366	96.1
3516.8	2.84349	95.5
3517.0	2.84333	94.7
3517.2	2.84317	93.7
3517.4	2.84301	93.1
3517.6	2.84285	92.5
3517.8	2.84269	92.8
3518.0	2.84252	93.1
3518.2	2.84236	93.1
3518.4	2.84220	92.8
3518.6	2.84204	92.4
3518.8	2.84188	92.0
3519.0	2.84172	91.6
3519.2	2.84155	91.3
3519.4	2.84139	91.2
3519.6	2.84123	91.3
3519.8	2.84107	91.6
3520.0	2.84091	91.5
3520.2	2.84075	91.7
3520.4	2.84059	91.7
3520.6	2.84042	91.2
3520.8	2.84026	90.8
3521.0	2.84010	90.2
3521.2	2.83994	89.1
3521.4	2.83978	87.9
3521.6	2.83962	86.4
3521.8	2.83946	84.6
3522.0	2.83930	82.0
3522.2	2.83913	79.6
3522.4	2.83897	76.7
3522.6	2.83881	74.5
3522.8	2.83865	72.4
3523.0	2.83849	71.2
3523.2	2.83833	70.5
3523.4	2.83817	69.7
3523.6	2.83801	68.2
3523.8	2.83785	66.9
3524.0	2.83768	66.7
3524.2	2.83752	69.0
3524.4	2.83736	72.2
3524.6	2.83720	74.7
3524.8	2.83704	75.6
3525.0	2.83688	74.5
3525.2	2.83672	71.1
3525.4	2.83656	65.1
3525.6	2.83640	62.1
3525.8	2.83624	65.4
3526.0	2.83607	71.3
3526.2	2.83591	75.4
3526.4	2.83575	76.7
3526.6	2.83559	76.3
3526.8	2.83543	74.8
3527.0	2.83527	73.0
3527.2	2.83511	71.9
3527.4	2.83495	71.1
3527.6	2.83479	71.0
3527.8	2.83463	71.5
3528.0	2.83447	72.1
3528.2	2.83431	72.5
3528.4	2.83415	72.7
3528.6	2.83399	72.5
3528.8	2.83382	71.6
3529.0	2.83366	71.4
3529.2	2.83350	72.4
3529.4	2.83334	74.5
3529.6	2.83318	76.6
3529.8	2.83302	79.1

ν (cm^{-1})	λ (micron)	T $\times$ 100
3530.0	2.83286	81.1
3530.2	2.83270	81.9
3530.4	2.83254	82.4
3530.6	2.83238	82.9
3530.8	2.83222	83.5
3531.0	2.83206	84.2
3531.2	2.83190	85.0
3531.4	2.83174	86.2
3531.6	2.83158	87.6
3531.8	2.83142	88.7
3532.0	2.83126	89.9
3532.2	2.83110	91.1
3532.4	2.83094	92.0
3532.6	2.83078	92.8
3532.8	2.83062	93.3
3533.0	2.83046	93.7
3533.2	2.83030	93.8
3533.4	2.83014	93.9
3533.6	2.82998	94.0
3533.8	2.82981	94.0
3534.0	2.82965	93.9
3534.2	2.82949	93.7
3534.4	2.82933	93.3
3534.6	2.82917	92.8
3534.8	2.82901	92.1
3535.0	2.82885	91.3
3535.2	2.82869	89.9
3535.4	2.82853	88.0
3535.6	2.82837	85.8
3535.8	2.82821	83.0
3536.0	2.82805	80.1
3536.2	2.82789	78.3
3536.4	2.82773	77.4
3536.6	2.82757	78.1
3536.8	2.82741	80.2
3537.0	2.82725	82.4
3537.2	2.82709	84.6
3537.4	2.82694	86.7
3537.6	2.82678	88.3
3537.8	2.82662	89.5
3538.0	2.82646	90.6
3538.2	2.82630	91.3
3538.4	2.82614	91.9
3538.6	2.82598	92.3
3538.8	2.82582	92.5
3539.0	2.82566	92.8
3539.2	2.82550	92.7
3539.4	2.82534	92.6
3539.6	2.82518	92.8
3539.8	2.82502	92.6
3540.0	2.82486	92.6
3540.2	2.82470	92.4
3540.4	2.82454	92.3
3540.6	2.82438	92.3
3540.8	2.82422	98.1
3541.0	2.82406	91.7
3541.2	2.82390	91.4
3541.4	2.82374	91.0
3541.6	2.82358	90.3
3541.8	2.82342	89.6
3542.0	2.82326	88.5
3542.2	2.82310	86.7
3542.4	2.82294	85.3
3542.6	2.82279	83.6
3542.8	2.82263	81.8
3543.0	2.82247	80.0
3543.2	2.82231	78.0
3543.4	2.82215	76.1
3543.6	2.82199	74.3
3543.8	2.82183	72.9
3544.0	2.82167	71.8
3544.2	2.82151	69.8
3544.4	2.82135	67.2
3544.6	2.82119	63.5
3544.8	2.82103	59.1
3545.0	2.82087	54.6
3545.2	2.82072	51.8
3545.4	2.82056	51.1
3545.6	2.82040	52.9
3545.8	2.82024	55.8
3546.0	2.82008	58.0
3546.2	2.81992	57.9
3546.4	2.81976	53.0
3546.6	2.81960	45.4
3546.8	2.81944	39.1
3547.0	2.81928	39.3
3547.2	2.81912	45.8
3547.4	2.81897	53.9
3547.6	2.81881	60.9
3547.8	2.81865	66.6
3548.0	2.81849	70.2
3548.2	2.81833	72.7
3548.4	2.81817	75.1
3548.6	2.81801	76.9
3548.8	2.81785	78.9
3549.0	2.81770	80.2
3549.2	2.81754	81.7
3549.4	2.81738	82.6
3549.6	2.81722	83.1
3549.8	2.81706	83.0

Table 5-5 (Cont'd)

Sam. No.	32	Sam. No.	32	Sam. No.	32	Sam. No.	32	Sam. No.	32
p(atm)	8.29×10^{-5}	p(atm)	8.29×10^{-5}	p(atm)	8.29×10^{-5}	p(atm)	8.29×10^{-5}	p(atm)	8.29×10^{-5}
P_e(atm)	1.003×10^{1}	P_e(atm)	1.003×10^{1}	P_e(atm)	1.003×10^{1}	P_e(atm)	1.003×10^{1}	P_e(atm)	1.003×10^{1}
u(gm/cm^2)	2.56×10^{-3}	u(gm/cm^2)	2.56×10^{-3}	u(gm/cm^2)	2.56×10^{-3}	u(gm/cm^2)	2.56×10^{-3}	u(gm/cm^2)	2.56×10^{-3}

ν (cm^{-1})	λ (micron)	T × 100	ν (cm^{-1})	λ (micron)	T × 100	ν (cm^{-1})	λ (micron)	T × 100	ν (cm^{-1})	λ (micron)	T × 100	ν (cm^{-1})	λ (micron)	T × 100
3550.0	2.81690	82.7	3570.0	2.80112	60.4	3590.0	2.78552	43.2	3610.0	2.77008	17.5	3630.0	2.75482	4.1
3550.2	2.81674	82.4	3570.2	2.80096	62.6	3590.2	2.78536	49.0	3610.2	2.76993	22.0	3630.2	2.75467	5.6
3550.4	2.81658	82.0	3570.4	2.80081	64.0	3590.4	2.78520	53.7	3610.4	2.76978	26.2	3630.4	2.75452	7.7
3550.6	2.81643	81.1	3570.6	2.80065	65.5	3590.6	2.78505	57.1	3610.6	2.76962	29.5	3630.6	2.75437	10.7
3550.8	2.81627	80.2	3570.8	2.80049	67.2	3590.8	2.78489	60.3	3610.8	2.76947	31.7	3630.8	2.75421	14.1
3551.0	2.81611	79.0	3571.0	2.80034	70.0	3591.0	2.78474	62.5	3611.0	2.76932	32.5	3631.0	2.75406	17.7
3551.2	2.81595	77.1	3571.2	2.80018	72.3	3591.2	2.78458	64.0	3611.2	2.76916	32.1	3631.2	2.75391	21.6
3551.4	2.81579	74.7	3571.4	2.80002	74.7	3591.4	2.78443	65.0	3611.4	2.76901	30.3	3631.4	2.75376	25.5
3551.6	2.81563	71.9	3571.6	2.79987	77.0	3591.6	2.78427	65.6	3611.6	2.76886	27.9	3631.6	2.75361	28.7
3551.8	2.81547	68.7	3571.8	2.79971	78.3	3591.8	2.78412	65.6	3611.8	2.76870	24.6	3631.8	2.75346	31.6
3552.0	2.81532	65.7	3572.0	2.79955	79.8	3592.0	2.78396	64.9	3612.0	2.76855	21.2	3632.0	2.75330	34.0
3552.2	2.81516	63.5	3572.2	2.79940	80.7	3592.2	2.78381	63.4	3612.2	2.76840	17.7	3632.2	2.75315	35.6
3552.4	2.81500	62.5	3572.4	2.79924	81.2	3592.4	2.78365	61.5	3612.4	2.76824	15.1	3632.4	2.75300	36.7
3552.6	2.81484	63.3	3572.6	2.79908	81.4	3592.6	2.78350	58.9	3612.6	2.76809	14.2	3632.6	2.75285	37.2
3552.8	2.81468	65.2	3572.8	2.79893	81.6	3592.8	2.78334	55.6	3612.8	2.76794	14.4	3632.8	2.75270	36.8
3553.0	2.81452	67.6	3573.0	2.79877	81.3	3593.0	2.78319	52.3	3613.0	2.76778	15.8	3633.0	2.75255	35.5
3553.2	2.81436	69.6	3573.2	2.79861	81.2	3593.2	2.78303	49.6	3613.2	2.76763	18.5	3633.2	2.75239	33.9
3553.4	2.81421	70.7	3573.4	2.79846	80.9	3593.4	2.78288	47.9	3613.4	2.76748	21.3	3633.4	2.75224	31.9
3553.6	2.81405	71.1	3573.6	2.79830	80.7	3593.6	2.78272	47.5	3613.6	2.76732	23.5	3633.6	2.75209	30.1
3553.8	2.81389	71.2	3573.8	2.79814	80.1	3593.8	2.78257	48.0	3613.8	2.76717	25.1	3633.8	2.75194	29.5
3554.0	2.81373	72.4	3574.0	2.79799	79.8	3594.0	2.78242	48.7	3614.0	2.76702	25.6	3634.0	2.75179	30.7
3554.2	2.81357	74.6	3574.2	2.79783	79.4	3594.2	2.78226	49.4	3614.2	2.76686	25.0	3634.2	2.75164	33.4
3554.4	2.81341	77.8	3574.4	2.79767	79.0	3594.4	2.78211	48.9	3614.4	2.76671	24.5	3634.4	2.75149	37.6
3554.6	2.81326	80.5	3574.6	2.79752	78.5	3594.6	2.78195	47.5	3614.6	2.76656	24.3	3634.6	2.75133	41.1
3554.8	2.81310	82.9	3574.8	2.79736	78.5	3594.8	2.78180	44.8	3614.8	2.76640	25.3	3634.8	2.75118	45.1
3555.0	2.81294	84.5	3575.0	2.79720	78.8	3595.0	2.78164	41.5	3615.0	2.76625	27.1	3635.0	2.75103	48.8
3555.2	2.81278	85.9	3575.2	2.79705	79.4	3595.2	2.78149	38.4	3615.2	2.76610	29.4			
3555.4	2.81262	86.9	3575.4	2.79689	80.0	3595.4	2.78133	36.3	3615.4	2.76595	31.7			
3555.6	2.81246	87.6	3575.6	2.79673	80.5	3595.6	2.78118	35.9	3615.6	2.76579	33.7			
3555.8	2.81231	88.0	3575.8	2.79658	81.0	3595.8	2.78102	37.4	3615.8	2.76564	35.5			
3556.0	2.81215	88.1	3576.0	2.79642	80.6	3596.0	2.78087	40.3	3616.0	2.76549	36.4			
3556.2	2.81199	88.1	3576.2	2.79626	80.1	3595.2	2.78071	43.7	3616.2	2.76533	36.5			
3556.4	2.81183	87.9	3576.4	2.79611	79.3	3596.4	2.78056	47.2	3616.4	2.76518	35.9			
3556.6	2.81167	87.4	3576.6	2.79595	78.5	3596.6	2.78040	50.9	3616.6	2.76503	34.4			
3556.8	2.81152	87.1	3576.8	2.79580	77.7	3596.8	2.78025	54.0	3616.8	2.76488	31.7			
3557.0	2.81136	86.7	3577.0	2.79564	77.3	3597.0	2.78009	56.4	3617.0	2.76472	28.4			
3557.2	2.81120	86.6	3577.2	2.79548	77.2	3597.2	2.77994	57.9	3617.2	2.76457	24.8			
3557.4	2.81104	86.4	3577.4	2.79533	77.7	3597.4	2.77979	59.0	3617.4	2.76442	21.2			
3557.6	2.81088	86.4	3577.6	2.79517	78.4	3597.6	2.77963	59.0	3617.6	2.76426	18.1			
3557.8	2.81073	86.5	3577.8	2.79501	79.3	3597.8	2.77948	58.6	3617.8	2.76411	16.3			
3558.0	2.81057	86.5	3578.0	2.79486	79.8	3598.0	2.77932	57.8	3618.0	2.76396	15.4			
3558.2	2.81041	86.2	3578.2	2.79470	80.5	3598.2	2.77917	56.9	3618.2	2.76381	15.3			
3558.4	2.81025	85.9	3578.4	2.79455	80.6	3598.4	2.77901	56.4	3618.4	2.76365	15.2			
3558.6	2.81009	85.2	3578.6	2.79439	80.4	3598.6	2.77886	56.5	3618.6	2.76350	14.7			
3558.8	2.80994	84.2	3578.8	2.79423	79.9	3598.8	2.77870	56.8	3618.8	2.76335	13.8			
3559.0	2.80978	82.6	3579.0	2.79408	78.9	3599.0	2.77855	57.4	3619.0	2.76319	12.2			
3559.2	2.80962	81.0	3579.2	2.79392	77.5	3599.2	2.77840	57.7	3619.2	2.76304	10.6			
3559.4	2.80946	78.9	3579.4	2.79376	75.6	3599.4	2.77824	57.9	3619.4	2.76289	9.1			
3559.6	2.80930	76.3	3579.6	2.79361	73.4	3599.6	2.77809	57.7	3619.6	2.76274	8.4			
3559.8	2.80915	73.5	3579.8	2.79345	71.3	3599.8	2.77793	57.4	3619.8	2.76258	8.5			
3560.0	2.80899	70.5	3580.0	2.79330	69.8	3600.0	2.77778	56.8	3620.0	2.76243	9.6			
3560.2	2.80883	68.6	3580.2	2.79314	69.6	3600.2	2.77762	56.0	3620.2	2.76228	11.4			
3560.4	2.80867	68.0	3580.4	2.79298	71.2	3600.4	2.77747	55.1	3620.4	2.76213	13.8			
3560.6	2.80852	68.8	3580.6	2.79283	73.5	3600.6	2.77731	53.9	3620.6	2.76197	16.4			
3560.8	2.80836	70.2	3580.8	2.79267	75.7	3600.8	2.77716	53.2	3620.8	2.76182	19.3			
3561.0	2.80820	71.7	3581.0	2.79252	77.1	3601.0	2.77701	53.0	3621.0	2.76167	21.8			
3561.2	2.80804	72.8	3581.2	2.79236	78.1	3601.2	2.77685	53.5	3621.2	2.76152	24.4			
3561.4	2.80788	73.5	3581.4	2.79220	78.8	3601.4	2.77670	55.0	3621.4	2.76136	27.1			
3561.4	2.80773	73.3	3581.6	2.79205	78.9	3601.6	2.77654	56.7	3621.6	2.76121	30.3			
3561.8	2.80757	72.7	3581.8	2.79189	78.7	3601.8	2.77639	58.8	3621.8	2.76106	33.7			
3562.0	2.80741	71.7	3582.0	2.79174	78.5	3602.0	2.77624	60.5	3622.0	2.76091	36.8			
3562.2	2.80725	69.9	3582.2	2.79158	77.4	3602.2	2.77608	61.5	3622.2	2.76075	39.5			
3562.4	2.80710	68.4	3582.4	2.79142	76.2	3602.4	2.77593	62.2	3622.4	2.76060	42.2			
3562.6	2.80694	67.4	3582.6	2.79127	75.3	3602.6	2.77577	62.9	3622.6	2.76045	43.8			
3562.8	2.80678	66.9	3582.8	2.79111	74.1	3602.8	2.77562	63.9	3622.8	2.76030	45.4			
3563.0	2.80662	65.9	3583.0	2.79096	73.1	3603.0	2.77546	64.9	3623.0	2.76014	46.4			
3563.2	2.80647	64.8	3583.2	2.79080	72.0	3603.2	2.77531	65.9	3623.2	2.75999	47.3			
3563.4	2.80631	63.2	3583.4	2.79065	70.6	3603.4	2.77516	66.9	3623.4	2.75984	47.9			
3563.6	2.80615	61.6	3583.6	2.79049	69.3	3603.6	2.77500	67.7	3623.6	2.75969	48.4			
3563.8	2.80599	60.6	3583.8	2.79033	68.4	3603.8	2.77485	68.2	3623.8	2.75953	48.5			
3564.0	2.80584	59.5	3584.0	2.79018	67.5	3604.0	2.77469	68.5	3624.0	2.75938	48.5			
3564.2	2.80568	58.3	3584.2	2.79002	66.4	3604.2	2.77454	68.6	3624.2	2.75923	48.2			
3564.4	2.80552	56.5	3584.4	2.78987	64.8	3604.4	2.77439	68.1	3624.4	2.75908	47.6			
3564.6	2.80536	54.4	3584.6	2.78971	62.8	3604.6	2.77423	67.3	3624.6	2.75893	46.6			
3564.8	2.80521	51.1	3584.8	2.78956	60.3	3604.8	2.77408	65.9	3624.8	2.75877	45.1			
3565.0	2.80505	47.6	3585.0	2.78940	56.7	3605.0	2.77393	64.3	3625.0	2.75862	43.3			
3565.2	2.80489	43.2	3585.2	2.78924	52.6	3605.2	2.77377	62.2	3625.2	2.75847	41.3			
3565.4	2.80673	38.6	3585.4	2.78909	48.1	3605.4	2.77362	59.8	3625.4	2.75832	38.5			
3565.6	2.80458	34.0	3585.6	2.78893	43.4	3605.6	2.77346	56.9	3625.6	2.75816	35.9			
3565.8	2.80442	29.9	3585.8	2.78878	37.6	3605.8	2.77331	53.6	3625.8	2.75801	33.0			
3566.0	2.80426	26.3	3586.0	2.78862	32.0	3606.0	2.77316	49.8	3626.0	2.75786	30.1			
3566.2	2.80411	23.7	3586.2	2.78847	26.8	3606.2	2.77300	45.1	3626.2	2.75771	27.3			
3566.4	2.80395	21.1	3586.4	2.78831	22.5	3606.4	2.77285	40.3	3626.4	2.75756	24.7			
3566.6	2.80379	20.1	3586.6	2.78816	19.5	3606.6	2.77269	35.5	3626.6	2.75740	22.4			
3566.8	2.80363	19.4	3586.8	2.78800	18.0	3606.8	2.77254	31.5	3626.8	2.75725	20.1			
3567.0	2.80348	19.1	3587.0	2.78784	17.9	3607.0	2.77239	28.1	3627.0	2.75710	17.5			
3567.2	2.80332	19.1	3587.2	2.78769	18.5	3607.2	2.77223	26.4	3627.2	2.75695	14.5			
3567.4	2.80316	18.0	3587.4	2.78753	19.4	3607.4	2.77208	25.6	3627.4	2.75680	11.7			
3567.6	2.80300	15.9	3587.6	2.78738	20.0	3607.6	2.77193	25.4	3627.6	2.75664	8.8			
3567.8	2.80285	13.4	3587.8	2.78722	19.6	3607.8	2.77177	24.8	3627.8	2.75649	6.7			
3568.0	2.80269	12.8	3588.0	2.78707	17.9	3608.0	2.77162	23.1	3628.0	2.75634	5.1			
3568.2	2.80253	15.0	3588.2	2.78691	15.4	3608.2	2.77146	20.2	3628.2	2.75619	4.1			
3568.4	2.80238	19.2	3588.4	2.78676	12.2	3608.4	2.77131	16.4	3628.4	2.75604	3.7			
3568.6	2.80222	24.7	3588.6	2.78660	9.7	3608.6	2.77116	12.4	3628.6	2.75588	3.5			
3568.8	2.80206	30.5	3588.8	2.78645	9.0	3608.8	2.77100	9.3	3628.8	2.75573	3.3			
3569.0	2.80191	36.7	3589.0	2.78629	10.5	3609.0	2.77085	7.1	3629.0	2.75558	3.1			
3569.2	2.80175	42.8	3589.2	2.78614	14.3	3609.2	2.77070	6.6	3629.2	2.75543	3.0			
3569.4	2.80159	48.4	3589.4	2.78598	21.0	3609.4	2.77054	7.3	3629.4	2.75528	2.9			
3569.6	2.80143	53.3	3589.6	2.78583	28.7	3609.6	2.77039	9.7	3629.6	2.75512	3.1			
3569.8	2.80128	57.4	3589.8	2.78567	36.4	3609.8	2.77024	11.0	3629.8	2.75497	3.3			

Table 5-6 $\int_{\nu'}^{\nu} A(\nu)\,d\nu$

Sam. No.	32	Sam. No.	32	Sam. No.	32	Sam. No.	32	Sam. No.	32	Sam. No.	32
p(atm)	8.29 $\times 10^{-3}$	p(atm)	8.29 $\times 10^{-3}$	p(atm)	8.29 $\times 10^{-3}$	p(atm)	8.29 $\times 10^{-3}$	p(atm)	8.29 $\times 10^{-3}$	p(atm)	8.29 $\times 10^{-3}$
P_e(atm)	1.003 $\times 10^{1}$	P_e(atm)	1.003 $\times 10^{1}$	P_e(atm)	1.003 $\times 10^{1}$	P_e(atm)	1.003 $\times 10^{1}$	P_e(atm)	1.003 $\times 10^{1}$	P_e(atm)	1.003 $\times 10^{1}$
u(gm/cm^2)	2.56 $\times 10^{-3}$	u(gm/cm^2)	2.56 $\times 10^{-3}$	u(gm/cm^2)	2.56 $\times 10^{-3}$	u(gm/cm^2)	2.56 $\times 10^{-3}$	u(gm/cm^2)	2.56 $\times 10^{-3}$	u(gm/cm^2)	2.56 $\times 10^{-3}$
ν (cm^{-1})	ν'=3430 cm^{-1}	ν (cm^{-1})	ν'=3430 cm^{-1}	ν (cm^{-1})	ν'=3430 cm^{-1}	ν (cm^{-1})	ν'=3430 cm^{-1}	ν (cm^{-1})	ν'=3430 cm^{-1}	ν (cm^{-1})	ν'=3430 cm^{-1}
3430.0	0.	3465.0	1.566	3500.0	3.401	3535.0	8.768	3570.0	19.492	3605.0	33.499
3430.5	0.011	3465.5	1.574	3500.5	3.441	3535.5	8.822	3570.5	19.678	3605.5	33.691
3431.0	0.025	3466.0	1.587	3501.0	3.489	3536.0	8.903	3571.0	19.843	3606.0	33.919
3431.5	0.041	3466.5	1.610	3501.5	3.556	3536.5	9.012	3571.5	19.978	3606.5	34.200
3432.0	0.056	3467.0	1.653	3502.0	3.645	3537.0	9.113	3572.0	20.089	3607.0	34.537
3432.5	0.069	3467.5	1.687	3502.5	3.766	3537.5	9.188	3572.5	20.185	3607.5	34.904
3433.0	0.081	3468.0	1.703	3503.0	3.905	3538.0	9.242	3573.0	20.278	3608.0	35.281
3433.5	0.091	3468.5	1.711	3503.5	4.043	3538.5	9.285	3573.5	20.372	3608.5	35.686
3434.0	0.101	3469.0	1.716	3504.0	4.177	3539.0	9.322	3574.0	20.471	3609.0	36.134
3434.5	0.109	3469.5	1.720	3504.5	4.311	3539.5	9.359	3574.5	20.574	3609.5	36.599
3435.0	0.116	3470.0	1.724	3505.0	4.403	3540.0	9.396	3575.0	20.681	3610.0	37.037
3435.5	0.123	3470.5	1.732	3505.5	4.473	3540.5	9.434	3575.5	20.783	3610.5	37.422
3436.0	0.130	3471.0	1.739	3506.0	4.528	3541.0	9.473	3576.0	20.880	3611.0	37.768
3436.5	0.140	3471.5	1.745	3506.5	4.573	3541.5	9.517	3576.5	20.981	3611.5	38.111
3437.0	0.150	3472.0	1.750	3507.0	4.612	3542.0	9.568	3577.0	21.091	3612.0	38.485
3437.5	0.159	3472.5	1.754	3507.5	4.649	3542.5	9.636	3577.5	21.204	3612.5	38.898
3438.0	0.169	3473.0	1.760	3508.0	4.692	3543.0	9.725	3578.0	21.309	3613.0	39.325
3438.5	0.180	3473.5	1.769	3508.5	4.748	3543.5	9.837	3578.5	21.407	3613.5	39.729
3439.0	0.194	3474.0	1.780	3509.0	4.831	3544.0	9.971	3579.0	21.507	3614.0	40.107
3439.5	0.205	3474.5	1.798	3509.5	4.946	3544.5	10.126	3579.5	21.623	3614.5	40.482
3440.0	0.217	3475.0	1.823	3510.0	5.075	3545.0	10.325	3580.0	21.763	3615.0	40.855
3440.5	0.231	3475.5	1.851	3510.5	5.178	3545.5	10.564	3580.5	21.911	3615.5	41.206
3441.0	0.248	3476.0	1.872	3511.0	5.252	3546.0	10.789	3581.0	22.036	3616.0	41.531
3441.5	0.270	3476.5	1.886	3511.5	5.309	3546.5	11.012	3581.5	22.145	3616.5	41.851
3442.0	0.301	3477.0	1.897	3512.0	5.357	3547.0	11.301	3582.0	22.252	3617.0	42.190
3442.5	0.343	3477.5	1.906	3512.5	5.397	3547.5	11.561	3582.5	22.366	3617.5	42.570
3443.0	0.390	3478.0	1.915	3513.0	5.431	3548.0	11.738	3583.0	22.494	3618.0	42.985
3443.5	0.430	3478.5	1.926	3513.5	5.460	3548.5	11.872	3583.5	22.636	3618.5	43.409
3444.0	0.461	3479.0	1.939	3514.0	5.484	3549.0	11.980	3584.0	22.793	3619.0	43.840
3444.5	0.490	3479.5	1.958	3514.5	5.507	3549.5	12.071	3584.5	22.963	3619.5	44.288
3445.0	0.525	3480.0	1.989	3515.0	5.525	3550.0	12.157	3585.0	23.160	3620.0	44.745
3445.5	0.578	3480.5	2.038	3515.5	5.542	3550.5	12.245	3585.5	23.403	3620.5	45.184
3446.0	0.630	3481.0	2.103	3516.0	5.558	3551.0	12.343	3586.0	23.708	3621.0	45.592
3446.5	0.689	3481.5	2.162	3516.5	5.576	3551.5	12.461	3586.5	24.078	3621.5	45.966
3447.0	0.773	3482.0	2.227	3517.0	5.598	3552.0	12.614	3587.0	24.484	3622.0	46.302
3447.5	0.888	3482.5	2.311	3517.5	5.630	3552.5	12.796	3587.5	24.890	3622.5	46.602
3448.0	0.998	3483.0	2.383	3518.0	5.666	3553.0	12.971	3588.0	25.294	3623.0	46.877
3448.5	1.072	3483.5	2.430	3518.5	5.701	3553.5	13.123	3588.5	25.721	3623.5	47.140
3449.0	1.120	3484.0	2.463	3519.0	5.741	3554.0	13.266	3589.0	26.173	3624.0	47.398
3449.5	1.152	3484.5	2.490	3519.5	5.784	3554.5	13.389	3589.5	26.589	3624.5	47.658
3450.0	1.174	3485.0	2.515	3520.0	5.827	3555.0	13.478	3590.0	26.918	3625.0	47.931
3450.5	1.189	3485.5	2.540	3520.5	5.869	3555.5	13.547	3590.5	27.168	3625.5	48.229
3451.0	1.201	3486.0	2.570	3521.0	5.914	3556.0	13.608	3591.0	27.372	3626.0	48.560
3451.5	1.211	3486.5	2.600	3521.5	5.970	3556.5	13.668	3591.5	27.551	3626.5	48.927
3452.0	1.218	3487.0	2.631	3522.0	6.046	3557.0	13.733	3592.0	27.724	3627.0	49.324
3452.5	1.224	3487.5	2.671	3522.5	6.152	3557.5	13.800	3592.5	27.910	3627.5	49.755
3453.0	1.229	3488.0	2.733	3523.0	6.287	3558.0	13.868	3593.0	28.128	3628.0	50.218
3453.5	1.235	3488.5	2.807	3523.5	6.435	3558.5	13.937	3593.5	28.381	3628.5	50.697
3454.0	1.240	3489.0	2.857	3524.0	6.598	3559.0	14.015	3594.0	28.641	3629.0	51.180
3454.5	1.245	3489.5	2.886	3524.5	6.748	3559.5	14.114	3594.5	28.896	3629.5	51.665
3455.0	1.250	3490.0	2.904	3525.0	6.874	3560.0	14.243	3595.0	29.170	3630.0	52.146
3455.5	1.255	3490.5	2.918	3525.5	7.028	3560.5	14.399	3595.5	29.479	3630.5	52.617
3456.0	1.263	3491.0	2.932	3526.0	7.200	3561.0	14.550	3596.0	29.792	3631.0	53.050
3456.5	1.270	3491.5	2.947	3526.5	7.325	3561.5	14.685	3596.5	30.069	3631.5	53.438
3457.0	1.278	3492.0	2.960	3527.0	7.450	3562.0	14.822	3597.0	30.304	3632.0	53.784
3457.5	1.284	3492.5	2.970	3527.5	7.591	3562.5	14.974	3597.5	30.513	3632.5	54.105
3458.0	1.290	3493.0	2.979	3528.0	7.734	3563.0	15.139	3598.0	30.720	3633.0	54.422
3458.5	1.298	3493.5	2.989	3528.5	7.871	3563.5	15.317	3598.5	30.936	3633.5	54.755
3459.0	1.313	3494.0	3.002	3529.0	8.011	3564.0	15.513	3599.0	31.152	3634.0	55.105
3459.5	1.324	3494.5	3.019	3529.5	8.145	3564.5	15.724	3599.5	31.363	3634.5	55.432
3460.0	1.333	3495.0	3.046	3530.0	8.253	3565.0	15.965	3600.0	31.576	3635.0	55.712
3460.5	1.348	3495.5	3.084	3530.5	8.343	3565.5	16.255	3600.5	31.798		
3461.0	1.371	3496.0	3.127	3531.0	8.427	3566.0	16.600	3601.0	32.030		
3461.5	1.396	3496.5	3.173	3531.5	8.500	3566.5	16.984	3601.5	32.260		
3462.0	1.425	3497.0	3.221	3532.0	8.558	3567.0	17.386	3602.0	32.468		
3462.5	1.457	3497.5	3.262	3532.5	8.601	3567.5	17.793	3602.5	32.660		
3463.0	1.493	3498.0	3.292	3533.0	8.636	3568.0	18.221	3603.0	32.842		
3463.5	1.523	3498.5	3.317	3533.5	8.667	3568.5	18.638	3603.5	33.011		
3464.0	1.542	3499.0	3.340	3534.0	8.697	3569.0	18.993	3604.0	33.171		
3464.5	1.555	3499.5	3.366	3534.5	8.729	3569.5	19.272	3604.5	33.329		

Table 5-7 $\frac{1}{u}\int_{\nu'}^{\nu} -\ln T(\nu)\,d\nu$

Sam. No.	32
p(atm)	8.29 $\times 10^{-3}$
P_e(atm)	1.003 $\times 10^{1}$
u(gm/cm^2)	2.56 $\times 10^{-3}$

ν (cm^{-1})	$\nu' = 3430$ cm^{-1}
3430.0	0.
3430.5	4.5145764+000
3431.0	1.0034349+001
3431.5	1.6344258+001
3432.0	2.2147514+001
3432.5	2.7266873+001
3433.0	3.2076454+001
3433.5	3.6199627+001
3434.0	3.9967919+001
3434.5	4.3179345+001
3435.0	4.5926961+001
3435.5	4.8703829+001
3436.0	5.1548174+001
3436.5	5.5339739+001
3437.0	5.9368943+001
3437.5	6.2918409+001
3438.0	6.6725726+001
3438.5	7.1295286+001
3439.0	7.6635557+001
3439.5	8.1236468+001
3440.0	8.6022136+001
3440.5	9.1601223+001
3441.0	9.8249801+001
3441.5	1.0703885+002
3442.0	1.1958222+002
3442.5	1.3685056+002
3443.0	1.5607319+002
3443.5	1.7210695+002
3444.0	1.8484784+002
3444.5	1.9655326+002
3445.0	2.1086260+002
3445.5	2.3251429+002
3446.0	2.5410374+002
3446.5	2.7843250+002
3447.0	3.1474079+002
3447.5	3.6598700+002
3448.0	4.1419851+002
3448.5	4.4572859+002
3449.0	4.6547761+002
3449.5	4.7845519+002
3450.0	4.8716719+002
3450.5	4.9320758+002
3451.0	4.9811863+002
3451.5	5.0197772+002
3452.0	5.0485624+002
3452.5	5.0712155+002
3453.0	5.0923218+002
3453.5	5.1135307+002
3454.0	5.1337727+002
3454.5	5.1525521+002
3455.0	5.1721117+002
3455.5	5.1936827+002
3456.0	5.2235944+002
3456.5	5.2531678+002
3457.0	5.2814320+002
3457.5	5.3080447+002
3458.0	5.3292358+002
3458.5	5.3634697+002
3459.0	5.4222701+002
3459.5	5.4639936+002
3460.0	5.5019745+002
3460.5	5.5597012+002
3461.0	5.6534944+002
3461.5	5.7533297+002
3462.0	5.8683945+002
3462.5	5.9993507+002
3463.0	6.1445712+002
3463.5	6.2654996+002
3464.0	6.3429418+002
3464.5	6.3934995+002
3465.0	6.4348913+002
3465.5	6.4698253+002
3466.0	6.5180154+002
3466.5	6.6134127+002
3467.0	6.7860264+002
3467.5	6.9258028+002
3468.0	6.9885728+002
3468.5	7.0207696+002
3469.0	7.0407855+002
3469.5	7.0561614+002
3470.0	7.0729705+002
3470.5	7.1017605+002
3471.0	7.1296990+002
3471.5	7.1532254+002
3472.0	7.1742212+002
3472.5	7.1916654+002
3473.0	7.2151848+002
3473.5	7.2486322+002
3474.0	7.2943507+002
3474.5	7.3644993+002
3475.0	7.4662291+002
3475.5	7.5778077+002
3476.0	7.6608123+002
3476.5	7.7181371+002
3477.0	7.7593111+002
3477.5	7.7945638+002
3478.0	7.8307758+002
3478.5	7.8737946+002
3479.0	7.9253203+002
3479.5	8.0041056+002
3480.0	8.1260546+002
3480.5	8.3278788+002
3481.0	8.6004762+002
3481.5	8.8468777+002
3482.0	9.1194014+002
3482.5	9.4779431+002
3483.0	9.7861256+002
3483.5	9.9790969+002
3484.0	1.0113420+003
3484.5	1.0220473+003
3485.0	1.0320502+003
3485.5	1.0421935+003
3486.0	1.0539653+003
3486.5	1.0661643+003
3487.0	1.0787259+003
3487.5	1.0951094+003
3488.0	1.1212299+003
3488.5	1.1522788+003
3489.0	1.1731209+003
3489.5	1.1847316+003
3490.0	1.1919565+003
3490.5	1.1973232+003
3491.0	1.2028101+003
3491.5	1.2089344+003
3492.0	1.2140852+003
3492.5	1.2179015+003
3493.0	1.2215843+003
3493.5	1.2256132+003
3494.0	1.2306327+003
3494.5	1.2375228+003
3495.0	1.2483060+003
3495.5	1.2636149+003
3496.0	1.2811954+003
3496.5	1.3001645+003
3497.0	1.3200614+003
3497.5	1.3367299+003
3498.0	1.3489820+003
3498.5	1.3586990+003
3499.0	1.3678571+003
3499.5	1.3786898+003
3500.0	1.3927051+003
3500.5	1.4088116+003
3501.0	1.4287241+003
3501.5	1.4567162+003
3502.0	1.4954125+003
3502.5	1.5497263+003
3503.0	1.6133005+003
3503.5	1.6763032+003
3504.0	1.7376277+003
3504.5	1.7985051+003
3505.0	1.8383252+003
3505.5	1.8677313+003
3506.0	1.8907515+003
3506.5	1.9090435+003
3507.0	1.9248427+003
3507.5	1.9401574+003
3508.0	1.9575000+003
3508.5	1.9809914+003
3509.0	2.0165710+003
3509.5	2.0676628+003
3510.0	2.1261159+003
3510.5	2.1708574+003
3511.0	2.2021955+003
3511.5	2.2262173+003
3512.0	2.2458203+003
3512.5	2.2621642+003
3513.0	2.2758149+003
3513.5	2.2874375+003
3514.0	2.2973148+003
3514.5	2.3062064+003
3515.0	2.3137448+003
3515.5	2.3202080+003
3516.0	2.3267168+003
3516.5	2.3338470+003
3517.0	2.3426907+003
3517.5	2.3555254+003
3518.0	2.3701769+003
3518.5	2.3844171+003
3519.0	2.4005382+003
3519.5	2.4182787+003
3520.0	2.4357751+003
3520.5	2.4528936+003
3521.0	2.4715806+003
3521.5	2.4968893+003
3522.0	2.5270105+003
3522.5	2.5736245+003
3523.0	2.6349629+003
3523.5	2.7040683+003
3524.0	2.7810262+003
3524.5	2.8509955+003
3525.0	2.9075505+003
3525.5	2.9798067+003
3526.0	3.0629417+003
3526.5	3.1190103+003
3527.0	3.1751676+003
3527.5	3.2399615+003
3528.0	3.3057860+003
3528.5	3.3668552+003
3529.0	3.4328795+003
3529.5	3.4961266+003
3530.0	3.5416230+003
3530.5	3.5805538+003
3531.0	3.6161485+003
3531.5	3.6471109+003
3532.0	3.6711372+003
3532.5	3.6890015+003
3533.0	3.7029359+003
3533.5	3.7154718+003
3534.0	3.7276619+003
3534.5	3.7406955+003
3535.0	3.7565343+003
3535.5	3.7787154+003
3536.0	3.8137456+003
3536.5	3.8614852+003
3537.0	3.9057630+003
3537.5	3.9374532+003
3538.0	3.9598834+003
3538.5	3.9774275+003
3539.0	3.9927432+003
3539.5	4.0076014+003
3540.0	4.0225163+003
3540.5	4.0379823+003
3541.0	4.0540860+003
3541.5	4.0719392+003
3542.0	4.0931561+003
3542.5	4.1217179+003
3543.0	4.1599801+003
3543.5	4.2097634+003
3544.0	4.2704632+003
3544.5	4.3431420+003
3545.0	4.4429332+003
3545.5	4.5701700+003
3546.0	4.6873604+003
3546.5	4.8025558+003
3547.0	4.9725726+003
3547.5	5.1172815+003
3548.0	5.2030790+003
3548.5	5.2640807+003
3549.0	5.3120012+003
3549.5	5.3513273+003
3550.0	5.3879167+003
3550.5	5.4261820+003
3551.0	5.4688663+003
3551.5	5.5215894+003
3552.0	5.5927995+003
3552.5	5.6813586+003
3553.0	5.7659495+003
3553.5	5.8367228+003
3554.0	5.9026977+003
3554.5	5.9575738+003
3555.0	5.9961041+003
3555.5	6.0254257+003
3556.0	6.0508193+003
3556.5	6.0758328+003
3557.0	6.1027313+003
3557.5	6.1309825+003
3558.0	6.1594556+003
3558.5	6.1886870+003
3559.0	6.2219735+003
3559.5	6.2647832+003
3560.0	6.3233865+003
3560.5	6.3966779+003
3561.0	6.4667094+003
3561.5	6.5286695+003
3562.0	6.5909504+003
3562.5	6.6618398+003
3563.0	6.7402601+003
3563.5	6.8266359+003
3564.0	6.9237108+003
3564.5	7.0312174+003
3565.0	7.1600142+003
3565.5	7.3303508+003
3566.0	7.5602558+003
3566.5	7.8464817+003
3567.0	8.1645851+003
3567.5	8.4939903+003
3568.0	8.8742957+003
3568.5	9.2295030+003
3569.0	9.4734170+003
3569.5	9.6347745+003
3570.0	9.7480214+003
3570.5	9.8391586+003
3571.0	9.9175244+003
3571.5	9.9793866+003
3572.0	1.0028088+004
3572.5	1.0076010+004
3573.0	1.0110055+004
3573.5	1.0150955+004
3574.0	1.0193899+004
3574.5	1.0239198+004
3575.0	1.0286285+004
3575.5	1.0331024+004
3576.0	1.0372971+004
3576.5	1.0417041+004
3577.0	1.0465694+004
3577.5	1.0515726+004
3578.0	1.0561798+004
3578.5	1.0604493+004
3579.0	1.0648355+004
3579.5	1.0699730+004
3580.0	1.0764198+004
3580.5	1.0832912+004
3581.0	1.0889222+004
3581.5	1.0937417+004
3582.0	1.0984172+004
3582.5	1.1035021+004
3583.0	1.1092740+004
3583.5	1.1158120+004
3584.0	1.1231611+004
3584.5	1.1313261+004
3585.0	1.1411105+004
3585.5	1.1541814+004
3586.0	1.1727183+004
3586.5	1.1992670+004
3587.0	1.2320541+004
3587.5	1.2647798+004
3588.0	1.2968816+004
3588.5	1.3349170+004
3589.0	1.3805557+004
3589.5	1.4164410+004
3590.0	1.4376624+004
3590.5	1.4513337+004
3591.0	1.4615431+004
3591.5	1.4702251+004
3592.0	1.4785263+004
3592.5	1.4876260+004
3593.0	1.4988432+004
3593.5	1.5126266+004
3594.0	1.5270009+004
3594.5	1.5409593+004
3595.0	1.5564805+004
3595.5	1.5753381+004
3596.0	1.5946022+004
3596.5	1.6104338+004
3597.0	1.6228527+004
3597.5	1.6334870+004
3598.0	1.6439364+004
3598.5	1.6549609+004
3599.0	1.6660177+004
3599.5	1.6767729+004
3600.0	1.6876209+004
3600.5	1.6990567+004
3601.0	1.7112813+004
3601.5	1.7233070+004
3602.0	1.7338858+004
3602.5	1.7433567+004
3603.0	1.7521799+004
3603.5	1.7602663+004
3604.0	1.7678011+004
3604.5	1.7752462+004
3605.0	1.7833264+004
3605.5	1.7928329+004
3606.0	1.8047953+004
3606.5	1.8209645+004
3607.0	1.8429377+004
3607.5	1.8689840+004
3608.0	1.8963454+004
3608.5	1.9290186+004
3609.0	1.9739314+004
3609.5	2.0257593+004
3610.0	2.0670834+004
3610.5	2.0960843+004
3611.0	2.1191475+004
3611.5	2.1418618+004
3612.0	2.1688040+004
3612.5	2.2032317+004
3613.0	2.2408344+004
3613.5	2.2732556+004
3614.0	2.3008218+004
3614.5	2.3279791+004
3615.0	2.3548718+004
3615.5	2.3784755+004
3616.0	2.3991036+004
3616.5	2.4189919+004
3617.0	2.4412195+004
3617.5	2.4693467+004
3618.0	2.5041070+004
3618.5	2.5408823+004
3619.0	2.5795484+004
3619.5	2.6241916+004
3620.0	2.6719370+004
3620.5	2.7133856+004
3621.0	2.7465266+004
3621.5	2.7736311+004
3622.0	2.7955124+004
3622.5	2.8133857+004
3623.0	2.8290505+004
3623.5	2.8436627+004
3624.0	2.8578359+004
3624.5	2.8722081+004
3625.0	2.8876570+004
3625.5	2.9053722+004
3626.0	2.9266893+004
3626.5	2.9525480+004
3627.0	2.9835331+004
3627.5	3.0224888+004
3628.0	3.0739592+004
3628.5	3.1363065+004
3629.0	3.2028294+004
3629.5	3.2713631+004
3630.0	3.3377207+004
3630.5	3.3923699+004
3631.0	3.4322813+004
3631.5	3.4616332+004
3632.0	3.4847380+004
3632.5	3.5048545+004
3633.0	3.5244698+004
3633.5	3.5459847+004
3634.0	3.5694737+004
3634.5	3.5903407+004
3635.0	3.6064176+004

Table 5-8

Sam. No.		33	34
p(atm)		5.26×10^{-3}	5.26×10^{-1}
P_e(atm)		5.02×10^{0}	1.002×10^{1}
u(gm/cm²)		8.0×10^{-4}	8.0×10^{-4}
ν (cm⁻¹)	λ (micron)	T × 100	T × 100
3540.0	2.82486	96.6	97.2
3540.2	2.82470	96.8	97.1
3540.4	2.82454	96.6	97.2
3540.6	2.82438	96.5	97.3
3540.8	2.82422	96.8	97.1
3541.0	2.82406	96.8	97.0
3541.2	2.82390	96.8	96.8
3541.4	2.82374	96.5	96.7
3541.6	2.82358	96.2	96.3
3541.8	2.82342	96.0	96.1
3542.0	2.82326	95.5	95.7
3542.2	2.82310	94.8	95.0
3542.4	2.82294	93.8	94.6
3542.6	2.82279	92.6	93.9
3542.8	2.82263	91.7	93.1
3543.0	2.82247	91.0	92.5
3543.2	2.82231	90.5	91.8
3543.4	2.82215	89.2	90.9
3543.6	2.82199	88.5	90.4
3543.8	2.82183	88.5	90.0
3544.0	2.82167	88.5	89.4
3544.2	2.82151	87.9	88.5
3544.4	2.82135	86.6	87.3
3544.6	2.82119	83.6	85.5
3544.8	2.82103	79.2	83.3
3545.0	2.82087	74.9	81.5
3545.2	2.82072	72.9	80.3
3545.4	2.82056	75.2	80.4
3545.6	2.82040	80.1	81.7
3545.8	2.82024	84.3	82.9
3546.0	2.82008	86.3	83.9
3546.2	2.81992	86.0	82.9
3546.4	2.81976	80.9	80.1
3546.6	2.81960	71.9	75.8
3546.8	2.81944	64.9	72.7
3547.0	2.81928	67.7	74.1
3547.2	2.81912	79.2	78.2
3547.4	2.81897	81.8	82.5
3547.6	2.81881	86.1	85.5
3547.8	2.81865	88.5	87.7
3548.0	2.81849	89.3	89.3
3548.2	2.81833	89.7	90.5
3548.4	2.81817	90.4	91.2
3548.6	2.81801	91.6	92.0
3548.8	2.81785	92.7	92.6
3549.0	2.81770	93.8	93.2
3549.2	2.81754	94.3	93.6
3549.4	2.81738	94.7	93.9
3549.6	2.81722	94.5	94.1
3549.8	2.81706	94.4	94.1
3550.0	2.81690	94.1	94.0
3550.2	2.81674	93.8	93.8
3550.4	2.81658	93.6	93.6
3550.6	2.81643	93.3	93.3
3550.8	2.81627	92.9	92.8
3551.0	2.81611	92.7	92.2
3551.2	2.81595	91.5	91.5
3551.4	2.81579	89.6	90.5
3551.6	2.81563	87.0	89.5
3551.8	2.81547	85.6	88.1
3552.0	2.81532	79.8	86.7
3552.2	2.81516	78.3	86.1
3552.4	2.81500	79.1	86.0
3552.6	2.81484	82.6	86.6
3552.8	2.81468	85.9	87.4
3553.0	2.81452	88.3	88.3
3553.2	2.81436	89.6	89.0
3553.4	2.81421	89.2	89.4
3553.6	2.81405	88.0	89.5
3553.8	2.81389	87.2	89.5
3554.0	2.81373	88.7	90.3
3554.2	2.81357	90.9	91.2
3554.4	2.81341	92.8	92.5
3554.6	2.81326	94.2	93.4
3554.8	2.81310	95.0	94.2
3555.0	2.81294	95.6	94.9
3555.2	2.81278	95.7	95.2
3555.4	2.81262	96.1	95.6
3555.6	2.81246	96.2	95.6
3555.8	2.81231	96.2	96.0
3556.0	2.81215	96.4	95.9
3556.2	2.81199	96.1	96.0
3556.4	2.81183	95.7	95.8
3556.6	2.81167	95.2	95.9
3556.8	2.81152	94.7	95.7
3557.0	2.81136	94.2	95.6
3557.2	2.81120	94.1	95.3
3557.4	2.81104	94.4	95.5
3557.6	2.81088	95.0	95.5
3557.8	2.81073	95.1	95.5
3558.0	2.81057	95.4	95.6
3558.2	2.81041	95.5	95.2
3558.4	2.81025	95.5	95.1
3558.6	2.81009	95.5	94.9
3558.8	2.80994	95.1	94.5
3559.0	2.80978	94.4	93.8
3559.2	2.80962	93.6	93.1
3559.4	2.80946	92.6	92.3
3559.6	2.80930	90.1	91.4
3559.8	2.80915	87.3	90.2
3560.0	2.80899	84.6	89.1
3560.2	2.80883	83.7	88.5
3560.4	2.80867	85.4	88.5
3560.6	2.80852	87.9	89.0
3560.8	2.80836	89.9	89.5
3561.0	2.80820	90.8	90.1
3561.2	2.80804	91.3	90.6
3561.4	2.80788	91.5	90.6
3561.6	2.80773	91.6	90.4
3561.8	2.80757	91.2	90.2
3562.0	2.80741	89.8	89.7
3562.2	2.80725	88.4	89.1
3562.4	2.80710	87.9	88.6
3562.6	2.80694	88.0	88.2
3562.8	2.80678	88.1	87.8
3563.0	2.80662	87.6	87.6
3563.2	2.80647	86.6	86.9
3563.4	2.80631	86.4	86.2
3563.6	2.80615	85.4	85.6
3563.8	2.80599	81.6	84.6

Sam. No.		33	34
p(atm)		5.26×10^{-3}	5.26×10^{-1}
P_e(atm)		5.02×10^{0}	1.002×10^{1}
u(gm/cm²)		8.0×10^{-4}	8.0×10^{-4}
ν (cm⁻¹)	λ (micron)	T × 100	T × 100
3564.0	2.80584	84.3	84.4
3564.2	2.80568	84.9	83.7
3564.4	2.80552	84.9	82.9
3564.6	2.80536	83.9	81.7
3564.8	2.80521	82.2	80.0
3565.0	2.80505	79.4	78.0
3565.2	2.80489	75.3	75.2
3565.4	2.80473	69.3	72.0
3565.6	2.80458	63.9	66.6
3565.8	2.80442	59.5	65.8
3566.0	2.80426	56.6	63.1
3566.2	2.80411	54.2	60.8
3566.4	2.80395	51.4	58.5
3566.6	2.80379	49.7	57.2
3566.8	2.80363	51.1	56.6
3567.0	2.80348	55.7	56.7
3567.2	2.80332	59.1	[illegible]
3567.4	2.80316	57.6	54.5
3567.6	2.80300	49.0	51.0
3567.8	2.80285	40.5	48.3
3568.0	2.80269	38.0	48.4
3568.2	2.80253	43.7	52.4
3568.4	2.80238	51.7	58.0
3568.6	2.80222	60.1	63.4
3568.8	2.80206	68.2	68.5
3569.0	2.80191	75.4	72.8
3569.2	2.80175	80.6	76.4
3569.4	2.80159	84.1	79.6
3569.6	2.80143	86.7	82.2
3569.8	2.80128	87.8	84.1
3570.0	2.80112	89.5	85.3
3570.2	2.80096	87.3	86.1
3570.4	2.80081	87.2	86.8
3570.6	2.80065	87.2	87.5
3570.8	2.80049	88.6	88.4
3571.0	2.80034	90.4	89.3
3571.2	2.80018	92.2	90.5
3571.4	2.80002	93.3	91.3
3571.6	2.79987	94.1	92.1
3571.8	2.79971	94.7	92.6
3572.0	2.79955	94.9	93.2
3572.2	2.79940	95.1	93.6
3572.4	2.79924	95.0	93.7
3572.6	2.79908	95.0	93.8
3572.8	2.79893	94.6	93.9
3573.0	2.79877	94.4	93.7
3573.2	2.79861	94.0	93.7
3573.4	2.79846	93.9	93.6
3573.6	2.79830	93.7	93.5
3573.8	2.79814	93.5	93.2
3574.0	2.79799	92.9	93.2
3574.2	2.79783	91.9	93.0
3574.4	2.79767	91.2	92.8
3574.6	2.79752	91.2	92.8
3574.8	2.79736	91.7	92.9
3575.0	2.79720	92.2	93.0
3575.2	2.79705	93.1	93.3
3575.4	2.79689	93.8	93.2
3575.6	2.79673	94.3	93.7
3575.8	2.79658	94.6	93.7
3576.0	2.79642	94.4	93.6
3576.2	2.79626	93.7	93.5
3576.4	2.79611	92.6	93.1
3576.6	2.79595	91.7	92.8
3576.8	2.79580	90.6	92.5
3577.0	2.79564	90.1	92.2
3577.2	2.79548	90.5	92.4
3577.4	2.79533	91.7	92.5
3577.6	2.79517	93.2	93.0
3577.8	2.79501	93.8	93.3
3578.0	2.79486	94.4	93.6
3578.2	2.79470	94.6	93.7
3578.4	2.79455	94.8	93.7
3578.6	2.79439	94.6	93.6
3578.8	2.79423	93.9	93.3
3579.0	2.79408	93.2	92.9
3579.2	2.79392	92.3	92.3
3579.4	2.79376	91.2	91.5
3579.6	2.79361	89.7	90.8
3579.8	2.79345	87.9	89.8
3580.0	2.79330	86.4	89.3
3580.2	2.79314	87.4	89.6
3580.4	2.79298	90.0	90.3
3580.6	2.79283	92.1	91.2
3580.8	2.79267	91.4	91.9
3581.0	2.79252	93.9	92.5
3581.2	2.79236	94.1	92.6
3581.4	2.79220	94.8	92.9
3581.6	2.79205	94.6	93.0
3581.8	2.79189	94.5	93.0
3582.0	2.79174	94.0	92.7
3582.2	2.79158	93.2	92.3
3582.4	2.79142	92.7	91.9
3582.6	2.79127	92.1	91.6
3582.8	2.79111	91.8	91.0
3583.0	2.79096	91.1	90.4
3583.2	2.79080	90.4	90.1
3583.4	2.79065	89.6	89.5
3583.6	2.79049	88.8	89.0
3583.8	2.79033	89.0	88.7
3584.0	2.79018	89.4	[illegible]
3584.2	2.79002	90.0	87.6
3584.4	2.78987	90.1	86.9
3584.6	2.78971	89.5	86.1
3584.8	2.78956	88.6	84.7
3585.0	2.78940	86.8	82.8
3585.2	2.78924	84.5	80.8
3585.4	2.78909	82.0	78.3
3585.6	2.78893	78.6	75.1
3585.8	2.78878	73.5	71.6
3586.0	2.78862	66.7	67.3
3586.2	2.78847	57.6	61.0
3586.4	2.78831	[illegible]	[illegible]
3586.6	2.78816	[illegible]	[illegible]
3586.8	2.78800	[illegible]	[illegible]
3587.0	2.78784	48.0	55.6
3587.2	2.78769	53.4	56.6
3587.4	2.78753	[illegible]	[illegible]
3587.6	2.78738	61.5	61.2
3587.8	2.78722	61.7	[illegible]

Sam. No.		33	34
p(atm)		5.26×10^{-3}	5.26×10^{-1}
P_e(atm)		5.02×10^{0}	1.002×10^{1}
u(gm/cm²)		8.0×10^{-4}	8.0×10^{-4}
ν (cm⁻¹)	λ (micron)	T × 100	T × 100
3588.0	2.78707	59.0	54.4
3588.2	2.78691	52.4	50.7
3588.4	2.78676	42.0	46.2
3588.6	2.78660	31.4	41.8
3588.8	2.78645	29.5	41.2
3589.0	2.78629	37.8	44.8
3589.2	2.78614	52.0	51.8
3589.4	2.78598	65.4	60.1
3589.6	2.78583	74.6	67.2
3589.8	2.78567	80.4	72.8
3590.0	2.78552	83.7	77.1
3590.2	2.78536	86.1	80.2
3590.4	2.78520	87.5	82.2
3590.6	2.78505	88.8	84.1
3590.8	2.78489	89.9	85.5
3591.0	2.78474	90.7	86.3
3591.2	2.78458	[illegible]	87.0
3591.4	2.78443	91.5	87.5
3591.6	2.78427	91.4	87.6
3591.8	2.78412	91.3	87.6
3592.0	2.78396	90.7	87.2
3592.2	2.78381	89.7	86.5
3592.4	2.78365	87.7	85.6
3592.6	2.78350	85.6	84.3
3592.8	2.78334	81.7	82.6
3593.0	2.78319	77.0	81.2
3593.2	2.78303	75.7	79.8
3593.4	2.78288	75.2	79.1
3593.6	2.78272	75.7	79.0
3593.8	2.78257	79.3	79.5
3594.0	2.78242	81.7	79.8
3594.2	2.78226	83.2	80.0
3594.4	2.78211	83.3	79.6
3594.6	2.78195	81.3	78.6
3594.8	2.78180	77.7	77.0
3595.0	2.78164	71.8	75.1
3595.2	2.78149	65.6	73.2
3595.4	2.78133	64.8	72.0
3595.6	2.78118	64.8	72.1
3595.8	2.78102	69.8	73.3
3596.0	2.78087	74.6	75.2
3596.2	2.78071	77.8	77.2
3596.4	2.78056	80.5	79.3
3596.6	2.78040	81.8	81.3
3596.8	2.78025	86.2	82.8
3597.0	2.78009	87.1	83.8
3597.2	2.77994	88.1	84.7
3597.4	2.77979	88.0	84.8
3597.6	2.77963	86.9	84.8
3597.8	2.77948	85.1	84.7
3598.0	2.77932	83.3	84.1
3598.2	2.77917	81.8	83.6
3598.4	2.77901	82.0	83.7
3598.6	2.77886	82.9	83.8
3598.8	2.77870	84.0	83.9
3599.0	2.77855	85.3	84.3
3599.2	2.77840	85.5	84.3
3599.4	2.77824	85.6	84.5
3599.6	2.77809	84.3	84.2
3599.8	2.77793	84.5	83.9
3600.0	2.77778	83.9	83.7
3600.2	2.77762	83.1	83.4
3600.4	2.77747	81.6	82.9
3600.6	2.77731	79.6	82.4
3600.8	2.77716	77.4	82.1
3601.0	2.77701	76.7	82.0
3601.2	2.77685	78.8	82.3
3601.4	2.77670	81.5	83.0
3601.6	2.77654	84.8	84.1
3601.8	2.77639	87.0	84.9
3602.0	2.77624	87.9	85.7
3602.2	2.77608	88.1	86.2
3602.4	2.77593	87.8	86.4
3602.6	2.77577	87.8	86.7
3602.8	2.77562	88.1	87.1
3603.0	2.77546	88.5	87.5
3603.2	2.77531	89.7	87.9
3603.4	2.77516	90.7	88.4
3603.6	2.77500	91.4	88.7
3603.8	2.77485	92.0	89.0
3604.0	2.77469	92.3	89.0
3604.2	2.77454	92.6	88.9
3604.4	2.77439	92.2	88.6
3604.6	2.77423	91.9	88.2
3604.8	2.77408	91.3	87.6
3605.0	2.77393	90.7	87.0
3605.2	2.77377	90.0	85.9
3605.4	2.77362	89.0	84.8
3605.6	2.77346	88.0	83.6
3605.8	2.77331	86.3	81.7
3606.0	2.77316	83.7	79.3
3606.2	2.77300	79.0	76.7
3606.4	2.77285	74.6	73.9
3606.6	2.77269	67.7	70.6
3606.8	2.77254	60.7	67.6
3607.0	2.77239	57.2	65.3
3607.2	2.77223	58.1	64.2
3607.4	2.77208	62.4	63.9
3607.6	2.77193	66.9	63.4
3607.8	2.77177	69.1	62.7
3608.0	2.77162	68.7	63.4
3608.2	2.77146	66.0	56.7
3608.4	2.77131	56.4	51.4
3608.6	2.77116	44.6	43.3
3608.8	2.77100	31.6	39.1
3609.0	2.77085	22.9	35.7
3609.2	2.77070	23.8	35.7
3609.4	2.77054	30.7	38.7
3609.6	2.77039	43.1	44.1
3609.8	2.77024	55.6	50.8
3610.0	2.77008	66.8	56.7
3610.2	2.76993	71.3	61.5
3610.4	2.76978	75.1	65.0
3610.6	2.76962	77.3	67.6
3610.8	2.76947	78.5	68.8
3611.0	2.76932	78.1	69.3
3611.2	2.76916	77.3	68.7
3611.4	2.76901	74.8	67.2
3611.6	2.76886	70.6	65.0
3611.8	2.76870	66.4	62.0

Sam. No.		33	34
p(atm)		5.26×10^{-3}	5.26×10^{-1}
P_e(atm)		5.02×10^{0}	1.002×10^{1}
u(gm/cm²)		8.0×10^{-4}	8.0×10^{-4}
ν (cm⁻¹)	λ (micron)	T × 100	T × 100
3612.0	2.76855	55.9	58.2
3612.2	2.76840	46.8	54.8
3612.4	2.76824	39.2	52.1
3612.6	2.76809	37.9	51.1
3612.8	2.76794	42.6	53.8
3613.0	2.76778	50.1	56.5
3613.2	2.76763	56.3	57.7
3613.4	2.76748	65.0	60.5
3613.6	2.76732	68.8	62.6
3613.8	2.76717	69.7	63.8
3614.0	2.76702	67.9	63.9
3614.2	2.76686	63.7	63.5
3614.4	2.76671	59.8	62.9
3614.6	2.76656	58.8	63.0
3614.8	2.76640	[illegible]	64.0
3615.0	2.76625	65.9	65.8
3615.2	2.76610	69.9	67.6
3615.4	2.76595	[illegible]	[illegible]
3615.6	2.76579	75.6	70.7
3615.8	2.76564	77.9	71.8
3616.0	2.76549	79.2	72.4
3616.2	2.76533	80.0	72.2
3616.4	2.76518	79.5	71.7
3616.6	2.76503	77.7	70.2
3616.8	2.76488	74.6	68.2
3617.0	2.76472	69.1	65.5
3617.2	2.76457	61.7	62.0
3617.4	2.76442	53.7	58.6
3617.6	2.76426	47.6	55.9
3617.8	2.76411	46.2	54.0
3618.0	2.76396	49.3	53.1
3618.2	2.76381	53.2	52.9
3618.4	2.76365	56.3	52.5
3618.6	2.76350	56.6	51.9
3618.8	2.76335	53.0	50.0
3619.0	2.76319	46.6	47.6
3619.2	2.76304	37.8	45.0
3619.4	2.76289	30.0	42.4
3619.6	2.76274	[illegible]	41.2
3619.8	2.76258	30.0	41.9
3620.0	2.76243	38.2	44.5
3620.2	2.76228	47.9	48.3
3620.4	2.76213	55.8	51.9
3620.6	2.76197	60.8	55.4
3620.8	2.76182	63.3	58.4
3621.0	2.76167	64.2	61.0
3621.2	2.76152	66.0	63.3
3621.4	2.76136	69.5	65.9
3621.6	2.76121	74.5	68.3
3621.8	2.76106	78.3	70.9
3622.0	2.76091	81.1	73.1
3622.2	2.76075	82.4	74.7
3622.4	2.76060	84.0	76.2
3622.6	2.76045	84.8	77.1
3622.8	2.76030	85.0	77.9
3623.0	2.76014	85.0	78.5
3623.2	2.75999	85.2	78.9
3623.4	2.75984	85.6	79.3
3623.6	2.75969	86.0	79.4
3623.8	2.75953	86.5	79.6
3624.0	2.75938	86.7	79.4
3624.2	2.75923	86.7	79.4
3624.4	2.75908	86.6	79.0
3624.6	2.75893	86.1	78.3
3624.8	2.75877	85.1	77.4
3625.0	2.75862	84.3	76.3
3625.2	2.75847	83.0	74.8
3625.4	2.75832	81.1	73.4
3625.6	2.75816	78.6	71.1
3625.8	2.75801	75.4	69.3
3626.0	2.75786	71.7	66.8
3626.2	2.75771	69.0	64.6
3626.4	2.75756	67.9	62.4
3626.6	2.75740	67.7	60.1
3626.8	2.75725	66.9	57.4
3627.0	2.75710	64.5	54.0
3627.2	2.75695	59.5	49.8
3627.4	2.75680	52.7	45.3
3627.6	2.75664	43.6	40.1
3627.8	2.75649	33.1	34.6
3628.0	2.75634	23.5	29.9
3628.2	2.75619	16.9	26.0
3628.4	2.75604	14.8	23.3
3628.6	2.75588	15.9	21.6
3628.8	2.75573	16.7	20.6
3629.0	2.75558	15.4	19.3
3629.2	2.75543	12.6	18.1
3629.4	2.75528	10.4	[illegible]
3629.6	2.75512	11.1	[illegible]
3629.8	2.75497	[illegible]	[illegible]
3630.0	2.75482	[illegible]	[illegible]
3630.2	2.75467	30.4	[illegible]
3630.4	2.75452	40.5	40.5
3630.6	2.75437	51.8	[illegible]
3630.8	2.75421	61.9	52.0
3631.0	2.75406	67.1	56.0
3631.2	2.75391	71.8	61.0
3631.4	2.75376	71.3	64.1
3631.6	2.75361	77.4	67.0
3631.8	2.75346	79.4	69.3
3632.0	2.75330	80.1	71.0
3632.2	2.75315	81.0	71.9
3632.4	2.75300	81.3	72.4
3632.6	2.75285	80.2	72.0
3632.8	2.75270	78.3	71.7
3633.0	2.75255	76.0	70.0
3633.2	2.75239	70.2	68.4
3633.4	2.75224	63.6	66.1
3633.6	2.75209	55.6	64.1
3633.8	2.75194	53.8	63.6
3634.0	2.75179	61.6	64.6
3634.2	2.75164	68.9	66.6
3634.4	2.75149	71.3	67.6
3634.6	2.75134	71.6	68.0
3634.8	2.75118	69.5	67.2
3635.0	2.75103	66.4	65.0
3635.2	2.75088	61.7	61.8
3635.4	2.75073	[illegible]	[illegible]
3635.6	2.75058	[illegible]	[illegible]
3635.8	2.75043	90.0	61.5

Sam. No.		33	34
p(atm)		5.26×10^{-3}	5.26×10^{-1}
P_e(atm)		5.02×10^{0}	1.002×10^{1}
u(gm/cm²)		8.0×10^{-4}	8.0×10^{-4}
ν (cm⁻¹)	λ (micron)	T × 100	T × 100
3636.0	2.75028	90.4	83.8
3636.2	2.75012	90.4	84.2
3636.4	2.74997	90.5	84.7
3636.6	2.74982	90.3	84.6
3636.8	2.74967	89.7	84.6
3637.0	2.74952	89.2	84.5
3637.2	2.74937	88.2	84.4
3637.4	2.74922	87.0	84.1
3637.6	2.74907	85.6	83.6
3637.8	2.74891	84.5	83.6
3638.0	2.74876	84.6	83.8
3638.2	2.74861	85.6	84.0
3638.4	2.74846	87.3	84.2
3638.6	2.74831	88.7	84.7
3638.8	2.74816	89.5	85.2
3639.0	2.74801	90.2	85.3
3639.2	2.74786	90.6	85.6
3639.4	2.74771	90.5	85.7
3639.6	2.74755	90.5	85.9
3639.8	2.74740	90.3	85.8
3640.0	2.74725	90.4	85.8
3640.2	2.74710	90.6	85.6
3640.4	2.74695	90.6	85.6
3640.6	2.74680	90.5	85.3
3640.8	2.74665	90.2	85.0
3641.0	2.74650	89.1	84.5
3641.2	2.74635	88.4	83.9
3641.4	2.74620	86.8	83.1
3641.6	2.74605	85.5	82.3
3641.8	2.74589	84.3	81.5
3642.0	2.74574	83.5	81.0
3642.2	2.74559	82.6	80.5
3642.4	2.74544	81.0	80.1
3642.6	2.74529	82.3	80.0
3642.8	2.74514	83.5	80.2
3643.0	2.74499	84.8	80.3
3643.2	2.74484	85.9	80.3
3643.4	2.74469	86.6	80.5
3643.6	2.74454	87.0	80.3
3643.8	2.74439	87.0	80.0
3644.0	2.74424	86.6	79.6
3644.2	2.74409	86.2	78.5
3644.4	2.74394	85.4	77.4
3644.6	2.74379	84.2	76.0
3644.8	2.74363	82.4	74.4
3645.0	2.74348	80.4	72.4
3645.2	2.74333	78.1	70.4
3645.4	2.74318	75.7	67.7
3645.6	2.74303	72.7	64.5
3645.8	2.74288	68.6	61.1
3646.0	2.74273	63.2	56.7
3646.2	2.74258	55.3	52.6
3646.4	2.74243	48.7	48.1
3646.6	2.74228	42.5	43.7
3646.8	2.74213	36.6	39.6
3647.0	2.74198	31.0	36.0
3647.2	2.74183	27.0	33.5
3647.4	2.74168	25.2	31.6
3647.6	2.74153	25.9	[illegible]
3647.8	2.74138	26.9	29.7
3648.0	2.74123	32.0	29.2
3648.2	2.74108	33.7	[illegible]
3648.4	2.74093	30.7	26.6
3648.6	2.74078	24.9	24.3
3648.8	2.74063	16.5	22.0
3649.0	2.74048	12.9	23.0
3649.2	2.74033	10.4	18.9
3649.4	2.74018	11.2	18.9
3649.6	2.74003	14.0	[illegible]
3649.8	2.73988	20.1	21.7
3650.0	2.73973	24.3	23.6
3650.2	2.73958	25.6	25.2
3650.4	2.73943	26.0	25.7
3650.6	2.73928	23.7	27.6
3650.8	2.73913	24.0	28.6
3651.0	2.73898	25.4	30.3
3651.2	2.73883	27.1	[illegible]
3651.4	2.73868	30.1	35.1
3651.6	2.73853	36.3	39.7
3651.8	2.73838	44.7	[illegible]
3652.0	2.73823	53.4	[illegible]
3652.2	2.73808	60.5	51.1
3652.4	2.73793	66.2	[illegible]
3652.6	2.73778	69.7	[illegible]
3652.8	2.73763	72.5	[illegible]
3653.0	2.73748	74.7	[illegible]
3653.2	2.73733	76.8	[illegible]
3653.4	2.73718	78.0	[illegible]
3653.6	2.73703	79.0	[illegible]
3653.8	2.73688	79.3	[illegible]
3654.0	2.73673	[illegible]	[illegible]
3654.2	2.73658	[illegible]	[illegible]
3654.4	2.73643	[illegible]	[illegible]
3654.6	2.73628	[illegible]	[illegible]
3654.8	2.73613	[illegible]	[illegible]
3655.0	2.73598	[illegible]	[illegible]
3655.2	2.73583	[illegible]	[illegible]
3655.4	2.73568	[illegible]	[illegible]
3655.6	2.73553	[illegible]	[illegible]
3655.8	2.73538	[illegible]	[illegible]
3656.0	2.73523	[illegible]	[illegible]
3656.2	2.73508	[illegible]	[illegible]
3656.4	2.73493	[illegible]	[illegible]
3656.6	2.73478	[illegible]	[illegible]
3656.8	2.73463	[illegible]	[illegible]
3657.0	2.73448	[illegible]	[illegible]
3657.2	2.73433	[illegible]	[illegible]
3657.4	2.73418	[illegible]	[illegible]
3657.6	2.73403	[illegible]	[illegible]
3657.8	2.73388	[illegible]	[illegible]
3658.0	2.73373	[illegible]	[illegible]
3658.2	2.73358	[illegible]	[illegible]
3658.4	2.73343	[illegible]	[illegible]
3658.6	2.73329	[illegible]	[illegible]
3658.8	2.73314	[illegible]	[illegible]
3659.0	2.73299	[illegible]	[illegible]
3659.2	2.73284	[illegible]	[illegible]
3659.4	2.73269	[illegible]	[illegible]
3659.6	2.73254	[illegible]	[illegible]
3659.8	2.73239	[illegible]	[illegible]

Table 5-8 (Cont'd)

Sam. No.		33	34
p(atm)		5.26 × 10^{-3}	5.26 × 10^{-3}
P_e(atm)		5.02 × 10^{0}	1.002 × 10^{1}
w(gm/cm^2)		8.0 × 10^{-4}	8.0 × 10^{-4}
ν (cm^{-1})	λ (micron)	T × 100	T × 100
3660.0	2.73224	86.4	81.3
3660.2	2.73209	87.2	81.9
3660.4	2.73194	87.9	82.5
3660.6	2.73179	88.9	83.0
3660.8	2.73164	89.3	83.6
3661.0	2.73149	89.9	83.7
3661.2	2.73134	90.2	84.2
3661.4	2.73120	90.2	84.5
3661.6	2.73105	90.4	84.7
3661.8	2.73090	90.5	84.7
3662.0	2.73075	90.6	84.9
3662.2	2.73060	90.6	84.9
3662.4	2.73045	90.9	85.1
3662.6	2.73030	90.8	84.9
3662.8	2.73015	90.8	85.0
3663.0	2.73000	90.6	84.7
3663.2	2.72985	90.7	84.7
3663.4	2.72970	90.7	84.5
3663.6	2.72956	90.5	84.5
3663.8	2.72941	90.5	84.2
3664.0	2.72926	[illegible]	[illegible]
3664.2	2.72911	90.1	83.6
3664.4	2.72896	89.7	83.2
3664.6	2.72881	89.5	82.7
3664.8	2.72866	89.2	82.2
3665.0	2.72851	88.7	81.6
3665.2	2.72836	88.2	80.9
3665.4	2.72822	87.7	80.3
3665.6	2.72807	87.0	79.6
3665.8	2.72792	86.3	78.3
3666.0	2.72777	85.6	77.3
3666.2	2.72762	84.8	76.0
3666.4	2.72747	83.6	74.8
3666.6	2.72732	82.6	73.0
3666.8	2. [illegible] 717	81.3	71.3
3667.0	2.72702	79.5	69.2
3667.2	2.72688	76.9	66.6
3667.4	2.72673	74.1	63.7
3667.6	2.72658	64.8	60.4
3667.8	2.72643	64.8	56.5
3668.0	2.72628	57.7	52.4
3668.2	2.72613	49.7	48.2
3668.4	2.72598	41.0	44.3
3668.6	2.72584	34.6	41.1
3668.8	2.72569	37.6	38.4
3669.0	2.72554	31.0	36.4
3669.2	2.72539	34.9	35.6
3669.4	2.72524	37.4	34.5
3669.6	2.72509	37.4	32.7
3669.8	2.72494	34.0	30.0
3670.0	2.72480	28.2	27.0
3670.2	2.72465	21.5	23.9
3670.4	2.72450	14.0	21.1
3670.6	2.72435	10.3	18.9
3670.8	2.72420	8.8	18.1
3671.0	2.72405	11.0	18.9
3671.2	2.72390	16.7	21.4
3671.4	2.72376	25.1	25.0
3671.6	2.72361	34.0	29.1
3671.8	2.72346	42.4	33.5
3672.0	2.72331	49.0	37.5
3672.2	2.72316	55.1	41.1
3672.4	2.72301	59.0	43.8
3672.6	2.72287	61.0	45.9
3672.8	2.72272	62.9	47.2
3673.0	2.72257	63.2	47.5
3673.2	2.72242	62.0	46.9
3673.4	2.72227	60.1	45.7
3673.6	2.72213	56.3	43.6
3673.8	2.72198	51.2	40.2
3674.0	2.72183	44.9	36.0
3674.2	2.72168	37.6	31.2
3674.4	2.72153	29.5	26.6
3674.6	2.72138	22.0	24.6
3674.8	2.72124	16.0	21.4
3675.0	2.72109	13.1	18.7
3675.2	2.72094	11.6	16.8
3675.4	2.72079	10.9	15.4
3675.6	2.72064	9.8	14.6
3675.8	2.72050	8.6	14.1
3676.0	2.72035	7.8	14.6
3676.2	2.72020	8.8	15.5
3676.4	2.72005	11.6	17.9
3676.6	2.71990	20.8	21.3
3676.8	2.71976	30.6	25.6
3677.0	2.71961	37.1	30.1
3677.2	2.71946	43.6	34.0
3677.4	2.71931	48.9	39.3
3677.6	2.71916	53.7	42.9
3677.8	2.71902	58.1	46.3
3678.0	2.71887	62.6	49.9
3678.2	2.71872	65.6	52.7
3678.4	2.71857	68.7	54.6
3678.6	2.71842	68.3	55.5
3678.8	2.71828	68.5	56.1
3679.0	[illegible]	[illegible]	[illegible]
3679.2	[illegible]	[illegible]	[illegible]
3679.4	[illegible]	[illegible]	[illegible]
3679.6	[illegible]	[illegible]	[illegible]
3679.8	[illegible]	[illegible]	[illegible]
3680.0	[illegible]	[illegible]	[illegible]
3680.2	[illegible]	[illegible]	[illegible]
3680.4	[illegible]	[illegible]	[illegible]
3680.6	[illegible]	[illegible]	[illegible]
3680.8	[illegible]	[illegible]	[illegible]
3681.0	[illegible]	[illegible]	[illegible]
3681.2	[illegible]	[illegible]	[illegible]
3681.4	[illegible]	[illegible]	[illegible]
3681.6	[illegible]	[illegible]	[illegible]
3681.8	[illegible]	[illegible]	[illegible]
3682.0	[illegible]	[illegible]	[illegible]
3682.2	[illegible]	[illegible]	[illegible]
3682.4	[illegible]	[illegible]	[illegible]
3682.6	[illegible]	[illegible]	[illegible]
3682.8	[illegible]	[illegible]	[illegible]
3683.0	[illegible]	[illegible]	[illegible]
3683.2	[illegible]	[illegible]	[illegible]
3683.4	[illegible]	[illegible]	[illegible]
3683.6	[illegible]	[illegible]	[illegible]
3683.8	[illegible]	[illegible]	[illegible]

Sam. No.		33	34
p(atm)		5.26 × 10^{-3}	5.26 × 10^{-3}
P_e(atm)		5.02 × 10^{0}	1.002 × 10^{1}
w(gm/cm^2)		8.0 × 10^{-4}	8.0 × 10^{-4}
ν (cm^{-1})	λ (micron)	T × 100	T × 100
3684.0	2.71444	83.5	75.2
3684.2	2.71429	82.5	74.5
3684.4	2.71415	81.3	73.7
3684.6	2.71400	80.5	72.9
3684.8	2.71385	80.4	72.1
3685.0	2.71370	80.5	71.2
3685.2	2.71356	80.5	70.4
3685.4	2.71341	80.1	69.2
3685.6	2.71326	79.1	67.6
3685.8	2.71312	77.7	65.8
3686.0	2.71297	76.0	63.5
3686.2	2.71282	73.4	60.9
3686.4	2.71267	70.2	57.8
3686.6	2.71253	66.9	53.7
3686.8	2.71238	61.4	49.7
3687.0	2.71223	55.8	45.2
3687.2	2.71209	48.9	40.5
3687.4	2.71194	40.2	35.2
3687.6	2.71179	30.8	30.1
3687.8	2.71164	22.1	25.7
3688.0	2.71150	14.6	[illegible]
3688.2	[illegible]	9.5	19.5
3688.4	2.71120	7.9	18.5
3688.6	2.71106	9.4	19.0
3688.8	2.71091	14.3	21.0
3689.0	2.71076	21.5	24.3
3689.2	2.71061	29.6	28.2
3689.4	2.71047	37.5	32.1
3689.6	2.71032	43.9	35.7
3689.8	2.71017	47.5	38.6
3690.0	2.71003	48.6	40.6
3690.2	2.70988	47.9	41.8
3690.4	2.70973	45.1	42.0
3690.6	2.70959	41.5	41.7
3690.8	2.70944	36.5	41.2
3691.0	2.70929	32.1	41.1
3691.2	2.70915	31.1	41.7
3691.4	2.70900	34.3	43.3
3691.6	2.70885	41.8	46.4
3691.8	2.70871	51.0	50.4
3692.0	2.70856	59.6	54.5
3692.2	2.70841	65.8	58.2
3692.4	2.70827	70.8	62.0
3692.6	2.70812	74.7	65.1
3692.8	2.70797	77.2	68.1
3693.0	2.70783	79.0	70.4
3693.2	2.70768	80.4	72.3
3693.4	2.70753	81.4	74.0
3693.6	2.70739	82.6	75.5
3693.8	2.70724	83.7	76.6
3694.0	2.70709	84.7	77.7
3694.2	2.70695	85.7	78.6
3694.4	2.70680	86.3	79.6
3694.6	2.70665	87.0	80.7
3694.8	2.70651	87.5	81.3
3695.0	2.70636	88.1	81.6
3695.2	2.70621	88.4	82.2
3695.4	2.70607	88.8	82.7
3695.6	2.70592	88.6	82.9
3695.8	2.70577	87.9	83.0
3696.0	2.70563	87.2	82.8
3696.2	2.70548	86.5	82.9
3696.4	2.70533	86.1	83.0
3696.6	[illegible]	[illegible]	[illegible]
3696.8	[illegible]	[illegible]	[illegible]
3697.0	[illegible]	[illegible]	[illegible]
3697.2	[illegible]	[illegible]	[illegible]
3697.4	[illegible]	[illegible]	[illegible]
3697.6	[illegible]	[illegible]	[illegible]
3697.8	[illegible]	[illegible]	[illegible]
3698.0	[illegible]	[illegible]	[illegible]
3698.2	[illegible]	[illegible]	[illegible]
3698.4	[illegible]	[illegible]	[illegible]
3698.6	[illegible]	[illegible]	[illegible]
3698.8	[illegible]	[illegible]	[illegible]
3699.0	[illegible]	[illegible]	[illegible]
3699.2	[illegible]	[illegible]	[illegible]
3699.4	[illegible]	[illegible]	[illegible]
3699.6	[illegible]	[illegible]	[illegible]
3699.8	[illegible]	[illegible]	[illegible]
3700.0	[illegible]	[illegible]	[illegible]
3700.2	[illegible]	[illegible]	[illegible]
3700.4	[illegible]	[illegible]	[illegible]
3700.6	[illegible]	[illegible]	[illegible]
3700.8	[illegible]	[illegible]	[illegible]
3701.0	[illegible]	[illegible]	[illegible]
3701.2	[illegible]	[illegible]	[illegible]
3701.4	[illegible]	[illegible]	[illegible]
3701.6	[illegible]	[illegible]	[illegible]
3701.8	[illegible]	[illegible]	[illegible]
3702.0	[illegible]	[illegible]	[illegible]
3702.2	[illegible]	[illegible]	[illegible]
3702.4	[illegible]	[illegible]	[illegible]
3702.6	[illegible]	[illegible]	[illegible]
3702.8	[illegible]	[illegible]	[illegible]
3703.0	[illegible]	[illegible]	[illegible]
3703.2	[illegible]	[illegible]	[illegible]
3703.4	[illegible]	[illegible]	[illegible]
3703.6	[illegible]	[illegible]	[illegible]
3703.8	[illegible]	[illegible]	[illegible]
3704.0	[illegible]	[illegible]	[illegible]
3704.2	[illegible]	[illegible]	[illegible]
3704.4	[illegible]	[illegible]	[illegible]
3704.6	[illegible]	[illegible]	[illegible]
3704.8	[illegible]	[illegible]	[illegible]
3705.0	[illegible]	[illegible]	[illegible]
3705.2	[illegible]	[illegible]	[illegible]
3705.4	[illegible]	[illegible]	[illegible]
3705.6	[illegible]	[illegible]	[illegible]
3705.8	[illegible]	[illegible]	[illegible]
3706.0	[illegible]	[illegible]	[illegible]
3706.2	[illegible]	[illegible]	[illegible]
3706.4	[illegible]	[illegible]	[illegible]
3706.6	[illegible]	[illegible]	[illegible]
3706.8	[illegible]	[illegible]	[illegible]
3707.0	[illegible]	[illegible]	[illegible]
3707.2	[illegible]	[illegible]	[illegible]
3707.4	[illegible]	[illegible]	[illegible]
3707.6	[illegible]	[illegible]	[illegible]
3707.8	[illegible]	[illegible]	[illegible]

Sam. No.		33	34
p(atm)		5.26 × 10^{-3}	5.26 × 10^{-3}
P_e(atm)		5.02 × 10^{0}	1.002 × 10^{1}
w(gm/cm^2)		8.0 × 10^{-4}	8.0 × 10^{-4}
ν (cm^{-1})	λ (micron)	T × 100	T × 100
3708.0	2.69687	73.6	66.5
3708.2	2.69673	69.2	63.6
3708.4	2.69658	63.4	62.1
3708.6	2.69644	57.0	56.7
3708.8	2.69629	49.3	53.7
3709.0	2.69614	42.1	51.1
3709.2	2.69600	36.9	48.7
3709.4	2.69585	35.6	47.5
3709.6	2.69571	38.3	47.2
3709.8	2.69556	43.8	47.6
3710.0	2.69542	49.4	[illegible]
3710.2	2.69527	53.6	48.7
3710.4	2.69513	54.8	48.8
3710.6	2.69498	54.1	48.0
3710.8	2.69484	51.5	46.7
3711.0	2.69469	48.2	44.3
3711.2	2.69455	43.8	41.9
3711.4	2.69440	37.5	39.8
3711.6	2.69426	30.8	35.8
3711.8	2.69411	23.5	32.8
3712.0	2.69397	17.5	30.5
[illegible]	2.69382	14.3	28.6
3712.4	2.69368	[illegible]	28.8
3712.6	2.69353	20.4	30.0
3712.8	2.69339	27.6	32.6
3713.0	2.69324	37.0	36.5
3713.2	2.69309	46.8	41.2
3713.4	2.69295	55.4	46.4
3713.6	2.69280	62.5	51.1
3713.8	2.69266	67.5	55.2
3714.0	2.69251	70.7	58.3
3714.2	2.69237	71.7	60.4
3714.4	2.69222	70.2	61.3
3714.6	2.69208	65.9	61.0
3714.8	2.69193	63.4	61.2
3715.0	2.69179	66.6	62.6
3715.2	2.69165	74.1	66.2
3715.4	2.69150	79.9	70.8
3715.6	2.69136	83.1	73.2
3715.8	2.69121	84.6	75.3
3716.0	2.69107	85.2	76.8
3716.2	2.69092	85.8	78.0
3716.4	2.69078	86.1	78.8
3716.6	2.69063	86.6	79.4
3716.8	2.69049	86.9	79.7
3717.0	2.69034	87.1	79.9
3717.2	2.69020	87.1	80.0
3717.4	2.69005	86.9	79.9
3717.6	2.68991	86.0	79.3
3717.8	2.68976	84.8	78.0
3718.0	2.68962	82.9	77.8
3718.2	2.68947	80.2	76.5
3718.4	2.68933	76.2	75.0
3718.6	2.68918	71.7	73.6
3718.8	2.68904	68.4	72.6
3719.0	2.68889	67.7	72.0
3719.2	2.68875	70.3	71.9
3719.4	2.68861	76.2	72.6
3719.6	2.68846	77.5	73.3
3719.8	2.68832	80.0	74.1
3720.0	2.68817	81.3	74.7
3720.2	2.68803	82.3	75.1
3720.4	2.68788	82.7	75.1
3720.6	[illegible]	[illegible]	[illegible]
3720.8	[illegible]	[illegible]	[illegible]
3721.0	[illegible]	[illegible]	[illegible]
3721.2	[illegible]	[illegible]	[illegible]
3721.4	[illegible]	[illegible]	[illegible]
3721.6	[illegible]	[illegible]	[illegible]
3721.8	[illegible]	[illegible]	[illegible]
3722.0	[illegible]	[illegible]	[illegible]
3722.2	[illegible]	[illegible]	[illegible]
3722.4	[illegible]	[illegible]	[illegible]
3722.6	[illegible]	[illegible]	[illegible]
3722.8	[illegible]	[illegible]	[illegible]
3723.0	[illegible]	[illegible]	[illegible]
3723.2	[illegible]	[illegible]	[illegible]
3723.4	[illegible]	[illegible]	[illegible]
3723.6	[illegible]	[illegible]	[illegible]
3723.8	[illegible]	[illegible]	[illegible]
3724.0	[illegible]	[illegible]	[illegible]
3724.2	[illegible]	[illegible]	[illegible]
3724.4	[illegible]	[illegible]	[illegible]
3724.6	[illegible]	[illegible]	[illegible]
3724.8	[illegible]	[illegible]	[illegible]
3725.0	[illegible]	[illegible]	[illegible]
3725.2	[illegible]	[illegible]	[illegible]
3725.4	[illegible]	[illegible]	[illegible]
3725.6	[illegible]	[illegible]	[illegible]
3725.8	[illegible]	[illegible]	[illegible]
3726.0	[illegible]	[illegible]	[illegible]
3726.2	[illegible]	[illegible]	[illegible]
3726.4	[illegible]	[illegible]	[illegible]
3726.6	[illegible]	[illegible]	[illegible]
3726.8	[illegible]	[illegible]	[illegible]
3727.0	[illegible]	[illegible]	[illegible]
3727.2	[illegible]	[illegible]	[illegible]
3727.4	[illegible]	[illegible]	[illegible]
3727.6	[illegible]	[illegible]	[illegible]
3727.8	[illegible]	[illegible]	[illegible]
3728.0	[illegible]	[illegible]	[illegible]
3728.2	[illegible]	[illegible]	[illegible]
3728.4	[illegible]	[illegible]	[illegible]
3728.6	[illegible]	[illegible]	[illegible]
3728.8	[illegible]	[illegible]	[illegible]
3729.0	[illegible]	[illegible]	[illegible]
3729.2	[illegible]	[illegible]	[illegible]
3729.4	[illegible]	[illegible]	[illegible]
3729.6	[illegible]	[illegible]	[illegible]
3729.8	[illegible]	[illegible]	[illegible]
3730.0	[illegible]	[illegible]	[illegible]
3730.2	[illegible]	[illegible]	[illegible]
3730.4	[illegible]	[illegible]	[illegible]
3730.6	[illegible]	[illegible]	[illegible]
3730.8	[illegible]	[illegible]	[illegible]
3731.0	[illegible]	[illegible]	[illegible]
3731.2	[illegible]	[illegible]	[illegible]
3731.4	[illegible]	[illegible]	[illegible]
3731.6	[illegible]	[illegible]	[illegible]
3731.8	[illegible]	[illegible]	[illegible]

Sam. No.		33	34
p(atm)		5.26 × 10^{-3}	5.26 × 10^{-3}
P_e(atm)		5.02 × 10^{0}	1.002 × 10^{1}
w(gm/cm^2)		8.0 × 10^{-4}	8.0 × 10^{-4}
ν (cm^{-1})	λ (micron)	T × 100	T × 100
3732.0	2.67953	18.5	31.8
3732.2	2.67938	18.0	30.6
3732.4	2.67924	21.9	30.9
3732.6	2.67910	29.0	32.7
3732.8	2.67895	36.7	34.9
3733.0	2.67881	43.5	37.1
3733.2	2.67867	48.6	39.1
3733.4	2.67852	51.0	40.2
3733.6	2.67838	51.0	40.3
3733.8	2.67824	48.3	39.6
3734.0	2.67809	43.5	37.2
3734.2	2.67795	37.3	34.5
3734.4	2.67781	30.9	31.6
3734.6	2.67766	24.9	28.0
3734.8	2.67752	21.2	25.8
3735.0	2.67738	20.0	24.3
3735.2	2.67723	21.0	23.8
3735.4	2.67709	23.2	24.0
3735.6	2.67695	26.1	24.2
3735.8	2.67680	28.3	23.9
3736.0	2.67666	27.6	22.9
3736.2	2.67652	23.5	21.1
3736.4	2.67637	17.0	19.1
3736.6	2.67623	12.6	17.8
3736.8	2.67609	12.9	18.1
3737.0	2.67594	19.6	21.2
3737.2	2.67580	29.9	25.7
3737.4	2.67566	40.1	31.0
3737.6	2.67551	46.9	35.8
3737.8	2.67537	50.0	39.5
3738.0	2.67523	50.8	42.6
3738.2	2.67508	50.7	45.8
3738.4	2.67494	51.0	47.0
3738.6	2.67480	55.1	49.1
3738.8	2.67465	59.6	50.9
3739.0	2.67451	63.5	52.4
3739.2	2.67437	66.5	54.0
3739.4	2.67423	68.4	54.8
3739.6	2.67408	69.3	55.3
3739.8	2.67394	68.6	55.2
3740.0	2.67380	67.3	54.5
3740.2	2.67365	65.1	53.6
3740.4	2.67351	61.7	51.8
3740.6	2.67337	57.9	50.0
3740.8	2.67322	53.6	48.2
3741.0	2.67308	50.7	46.6
3741.2	2.67294	50.6	45.7
3741.4	2.67280	53.0	45.2
3741.6	2.67265	56.0	44.6
3741.8	2.67251	57.9	43.8
3742.0	2.67237	58.2	42.5
3742.2	2.67222	56.6	40.1
3742.4	2.67208	54.0	37.6
3742.6	2.67194	49.7	33.8
3742.8	2.67180	43.8	29.6
3743.0	2.67165	36.7	25.1
3743.2	2.67151	28.5	20.2
3743.4	2.67137	20.5	16.0
3743.6	2.67123	12.9	12.1
3743.8	2.67108	8.2	9.8
[illegible]	[illegible]	5.1	7.8
[illegible]	[illegible]	5.5	5.9
[illegible]	2.67065	5.6	6.1
3744.6	[illegible]	[illegible]	[illegible]
3744.8	[illegible]	[illegible]	[illegible]
3745.0	[illegible]	[illegible]	[illegible]
3745.2	[illegible]	[illegible]	[illegible]
3745.4	[illegible]	[illegible]	[illegible]
3745.6	[illegible]	[illegible]	[illegible]
3745.8	[illegible]	[illegible]	[illegible]
3746.0	[illegible]	[illegible]	[illegible]
3746.2	[illegible]	[illegible]	[illegible]
3746.4	[illegible]	[illegible]	[illegible]
3746.6	[illegible]	[illegible]	[illegible]
3746.8	[illegible]	[illegible]	[illegible]
3747.0	[illegible]	[illegible]	[illegible]
3747.2	[illegible]	[illegible]	[illegible]
3747.4	[illegible]	[illegible]	[illegible]
3747.6	[illegible]	[illegible]	[illegible]
3747.8	[illegible]	[illegible]	[illegible]
3748.0	[illegible]	[illegible]	[illegible]
3748.2	[illegible]	[illegible]	[illegible]
3748.4	[illegible]	[illegible]	[illegible]
3748.6	[illegible]	[illegible]	[illegible]
3748.8	[illegible]	[illegible]	[illegible]
3749.0	[illegible]	[illegible]	[illegible]
3749.2	[illegible]	[illegible]	[illegible]
3749.4	[illegible]	[illegible]	[illegible]
3749.6	[illegible]	[illegible]	[illegible]
3749.8	[illegible]	[illegible]	[illegible]
3750.0	[illegible]	[illegible]	[illegible]
3750.2	[illegible]	[illegible]	[illegible]
3750.4	[illegible]	[illegible]	[illegible]
3750.6	[illegible]	[illegible]	[illegible]
3750.8	[illegible]	[illegible]	[illegible]
3751.0	[illegible]	[illegible]	[illegible]
3751.2	[illegible]	[illegible]	[illegible]
3751.4	[illegible]	[illegible]	[illegible]
3751.6	[illegible]	[illegible]	[illegible]
3751.8	[illegible]	[illegible]	[illegible]
3752.0	[illegible]	[illegible]	[illegible]
3752.2	[illegible]	[illegible]	[illegible]
3752.4	[illegible]	[illegible]	[illegible]
3752.6	[illegible]	[illegible]	[illegible]
3752.8	[illegible]	[illegible]	[illegible]
3753.0	[illegible]	[illegible]	[illegible]
3753.2	[illegible]	[illegible]	[illegible]
3753.4	[illegible]	[illegible]	[illegible]
3753.6	[illegible]	[illegible]	[illegible]
3753.8	[illegible]	[illegible]	[illegible]
3754.0	[illegible]	[illegible]	[illegible]
3754.2	[illegible]	[illegible]	[illegible]
3754.4	[illegible]	[illegible]	[illegible]
3754.6	[illegible]	[illegible]	[illegible]
3754.8	[illegible]	[illegible]	[illegible]
3755.0	[illegible]	[illegible]	[illegible]
3755.2	[illegible]	[illegible]	[illegible]
3755.4	[illegible]	[illegible]	[illegible]
3755.6	[illegible]	[illegible]	[illegible]
3755.8	[illegible]	[illegible]	[illegible]

Sam. No.		33	34
p(atm)		5.26 × 10^{-3}	5.26 × 10^{-3}
P_e(atm)		5.02 × 10^{0}	1.002 × 10^{1}
w(gm/cm^2)		8.0 × 10^{-4}	8.0 × 10^{-4}
ν (cm^{-1})	λ (micron)	T × 100	T × 100
3756.0	2.66241	67.3	56.9
3756.2	2.66227	58.3	55.9
3756.4	2.66212	53.7	55.2
3756.6	2.66198	51.3	55.2
3756.8	2.66184	53.3	55.6
3757.0	2.66170	58.6	56.9
3757.2	2.66156	64.2	58.7
3757.4	2.66141	68.8	60.2
3757.6	2.66127	71.4	61.4
3757.8	2.66113	72.6	62.3
3758.0	2.66099	72.5	62.6
3758.2	2.66085	71.5	62.1
3758.4	2.66071	69.1	61.3
3758.6	2.66057	65.6	59.9
3758.8	2.66042	60.8	58.2
3759.0	2.66028	55.8	56.3
3759.2	2.66014	51.3	54.7
3759.4	2.66000	46.7	53.4
3759.6	2.65986	42.0	52.6
3759.8	2.65972	41.9	52.8
3760.0	2.65957	45.7	53.8
3760.2	2.65943	52.3	56.0
[illegible]	2.65929	60.0	58.7
[illegible]	[illegible]	66.8	61.8
3760.8	2.65901	72.0	64.3
3761.0	2.65887	75.9	67.0
3761.2	2.65873	78.7	69.6
3761.4	2.65858	81.0	71.3
3761.6	2.65844	82.3	72.6
3761.8	2.65830	83.2	73.7
3762.0	2.65816	83.6	74.8
3762.2	2.65802	83.8	75.6
3762.4	2.65788	84.2	76.0
3762.6	2.65774	84.6	76.5
3762.8	2.65760	85.1	76.9
3763.0	2.65745	85.4	76.9
3763.2	2.65731	85.3	77.0
3763.4	2.65717	84.9	76.8
3763.6	2.65703	84.5	76.4
3763.8	2.65689	83.9	75.9
3764.0	2.65675	83.0	74.9
3764.2	2.65661	81.7	73.9
3764.4	2.65647	79.8	72.6
3764.6	2.65632	77.1	70.6
3764.8	2.65618	73.4	68.6
3765.0	2.65604	68.9	66.2
3765.2	2.65590	62.4	63.8
3765.4	2.65576	55.3	61.7
3765.6	2.65562	49.6	60.1
3765.8	2.65548	48.3	59.5
3766.0	2.65534	51.6	59.9
3766.2	2.65520	58.4	61.6
3766.4	2.65506	65.7	63.9
3766.6	2.65491	71.3	66.2
3766.8	2.65477	75.8	68.4
3767.0	2.65463	78.6	70.2
3767.2	2.65449	80.5	71.3
3767.4	2.65435	81.6	72.2
3767.6	2.65421	81.9	72.5
3767.8	2.65407	81.9	72.2
3768.0	2.65393	80.6	71.6
3768.2	2.65379	78.9	70.2
3768.4	2.65365	76.2	68.5
3768.6	[illegible]	[illegible]	[illegible]
3768.8	[illegible]	[illegible]	[illegible]
3769.0	[illegible]	[illegible]	[illegible]
3769.2	[illegible]	[illegible]	[illegible]
3769.4	[illegible]	[illegible]	[illegible]
3769.6	[illegible]	[illegible]	[illegible]
3769.8	[illegible]	[illegible]	[illegible]
3770.0	[illegible]	[illegible]	[illegible]
3770.2	[illegible]	[illegible]	[illegible]
3770.4	[illegible]	[illegible]	[illegible]
3770.6	[illegible]	[illegible]	[illegible]
3770.8	[illegible]	[illegible]	[illegible]
3771.0	[illegible]	[illegible]	[illegible]
3771.2	[illegible]	[illegible]	[illegible]
3771.4	[illegible]	[illegible]	[illegible]
3771.6	[illegible]	[illegible]	[illegible]
3771.8	[illegible]	[illegible]	[illegible]
3772.0	[illegible]	[illegible]	[illegible]
3772.2	[illegible]	[illegible]	[illegible]
3772.4	[illegible]	[illegible]	[illegible]
3772.6	[illegible]	[illegible]	[illegible]
3772.8	[illegible]	[illegible]	[illegible]
3773.0	[illegible]	[illegible]	[illegible]
3773.2	[illegible]	[illegible]	[illegible]
3773.4	[illegible]	[illegible]	[illegible]
3773.6	[illegible]	[illegible]	[illegible]
3773.8	[illegible]	[illegible]	[illegible]
3774.0	[illegible]	[illegible]	[illegible]
3774.2	[illegible]	[illegible]	[illegible]
3774.4	[illegible]	[illegible]	[illegible]
3774.6	[illegible]	[illegible]	[illegible]
3774.8	[illegible]	[illegible]	[illegible]
3775.0	[illegible]	[illegible]	[illegible]
3775.2	[illegible]	[illegible]	[illegible]
3775.4	[illegible]	[illegible]	[illegible]
3775.6	[illegible]	[illegible]	[illegible]
3775.8	[illegible]	[illegible]	[illegible]
3776.0	[illegible]	[illegible]	[illegible]
3776.2	[illegible]	[illegible]	[illegible]
3776.4	[illegible]	[illegible]	[illegible]
3776.6	[illegible]	[illegible]	[illegible]
3776.8	[illegible]	[illegible]	[illegible]
3777.0	[illegible]	[illegible]	[illegible]
3777.2	[illegible]	[illegible]	[illegible]
3777.4	[illegible]	[illegible]	[illegible]
3777.6	[illegible]	[illegible]	[illegible]
3777.8	[illegible]	[illegible]	[illegible]
3778.0	[illegible]	[illegible]	[illegible]
3778.2	[illegible]	[illegible]	[illegible]
3778.4	[illegible]	[illegible]	[illegible]
3778.6	[illegible]	[illegible]	[illegible]
3778.8	[illegible]	[illegible]	[illegible]
3779.0	[illegible]	[illegible]	[illegible]
3779.2	[illegible]	[illegible]	[illegible]
3779.4	[illegible]	[illegible]	[illegible]
3779.6	[illegible]	[illegible]	[illegible]
3779.8	[illegible]	[illegible]	[illegible]

Table 5-8 (Cont'd)

Sam. No.		33	34
p(atm)		5.26 x 10^{-3}	5.26 x 10^{-1}
P_e(atm)		5.02 x 10^{0}	1.002 x 10^{1}
w(gm/cm^2)		8.0 x 10^{-4}	8.0 x 10^{-4}
ν (cm^{-1})	λ (micron)	T x 100	T x 100
3780.0	2.64550	63.1	67.4
3780.2	2.64536	69.8	70.0
3780.4	2.64522	75.8	72.5
3780.6	2.64508	80.3	75.1
3780.8	2.64494	83.4	77.3
3781.0	2.64480	85.5	78.9
3781.2	2.64466	87.0	80.3
3781.4	2.64452	88.0	81.6
3781.6	2.64438	88.6	82.5
3781.8	2.64424	88.9	83.0
3782.0	2.64410	89.5	83.8
3782.2	2.64396	90.1	84.4
3782.4	2.64382	90.6	84.6
3782.6	2.64368	90.8	84.9
3782.8	2.64354	90.9	84.9
3783.0	2.64340	90.8	84.7
3783.2	2.64326	90.2	84.7
3783.4	2.64313	89.5	84.1
3783.6	2.64299	88.2	83.4
3783.8	2.64285	86.5	82.6
3784.0	2.64271	83.7	81.5
3784.2	2.64257	80.7	80.8
3784.4	2.64243	78.1	80.0
3784.6	2.64229	76.9	79.6
3784.8	2.64215	77.6	79.5
3785.0	2.64201	[illegible]	80.1
3785.2	2.64187	81.5	80.6
3785.4	2.64173	83.7	81.6
3785.6	2.64159	85.5	82.4
3785.8	2.64145	87.1	83.3
3786.0	2.64131	88.1	84.1
3786.2	2.64117	89.1	84.7
3786.4	2.64103	90.0	85.4
3786.6	2.64089	90.7	85.9
3786.8	2.64075	91.1	86.3
3787.0	2.64061	91.6	87.0
3787.2	2.64047	92.2	87.4
3787.4	2.64033	92.7	87.8
3787.6	2.64019	93.1	88.1
3787.8	2.64005	93.4	88.3
3788.0	2.63992	93.7	88.5
3788.2	2.63978	93.7	88.6
3788.4	2.63964	93.7	88.6
3788.6	2.63950	93.5	88.6
3788.8	2.63936	93.5	88.7
3789.0	2.63922	93.2	88.6
3789.2	2.63908	93.0	88.5
3789.4	2.63894	93.1	88.7
3789.6	2.63880	93.3	88.6
3789.8	2.63866	93.4	88.7
3790.0	2.63852	93.7	88.7
3790.2	2.63838	93.9	88.8
3790.4	2.63824	93.8	88.8
3790.6	2.63810	94.0	88.8
3790.8	2.63797	94.0	88.5
3791.0	2.63783	93.0	88.5
3791.2	2.63769	93.7	88.3
3791.4	2.63755	93.4	88.1
3791.6	2.63741	93.3	87.9
3791.8	2.63727	93.1	87.7
3792.0	2.63713	93.1	87.4
3792.2	2.63699	92.7	87.0
[illegible]	[illegible]	[illegible]	[illegible]

Sam. No.		33	34
p(atm)		5.26 x 10^{-3}	5.26 x 10^{-1}
P_e(atm)		5.02 x 10^{0}	1.002 x 10^{1}
w(gm/cm^2)		8.0 x 10^{-4}	8.0 x 10^{-4}
ν (cm^{-1})	λ (micron)	T x 100	T x 100
3804.0	2.62881	65.5	50.9
3804.2	.62867	67.8	52.7
3804.4	2.62854	69.0	53.9
3804.6	2.62840	69.6	54.5
3804.8	2.62826	69.2	54.3
3805.0	2.62812	68.6	53.6
3805.2	2.62798	66.6	52.3
3805.4	2.62784	63.7	50.3
3805.6	2.62771	60.6	48.1
3805.8	2.62757	55.8	45.3
3806.0	2.62743	49.4	42.0
3806.2	2.62729	41.9	38.4
3806.4	2.62715	33.7	34.9
3806.6	2.62702	25.8	31.7
3806.8	2.62688	19.2	29.4
3807.0	2.62674	15.0	28.3
3807.2	2.62660	15.6	28.6
3807.4	2.62646	20.1	30.6
3807.6	2.62633	27.9	34.0
3807.8	2.62619	37.8	38.4
3808.0	2.62605	47.7	43.3
3808.2	2.62591	55.4	47.9
3808.4	2.62577	62.8	52.6
3808.6	2.62564	68.2	56.8
3808.8	2.62550	72.5	60.5
3809.0	2.62536	75.7	63.4
3809.2	2.62522	78.	66.1
3809.4	2.62509	80.1	68.3
3809.6	2.62495	81.6	70.2
3809.8	2.62481	82.9	71.6
3810.0	2.62467	83.7	72.9
3810.2	2.62453	84.5	74.0
3810.4	2.62440	85.1	74.6
3810.6	2.62426	85.6	75.2
3810.8	2.62412	85.9	75.7
3811.0	2.62398	86.2	76.0
3811.2	2.62385	86.4	76.2
3811.4	2.62371	86.4	76.2
3811.6	2.62357	86.4	76.1
3811.8	2.62343	86.2	75.9
3812.0	2.62329	85.9	75.4
3812.2	2.62316	85.4	75.1
3812.4	2.62302	85.1	74.4
3812.6	2.62288	84.5	73.6
3812.8	2.62274	83.8	72.6
3813.0	2.62261	83.0	71.3
3813.2	2.62247	82.0	70.0
3813.4	2.62233	80.5	68.3
3813.6	2.62219	78.6	66.1
3813.8	2.62206	76.6	63.9
3814.0	2.62192	74.2	61.0
3814.2	2.62178	71.1	57.8
3814.4	2.62164	66.9	53.6
3814.6	2.62151	61.9	49.3
3814.8	2.62137	55.5	[illegible]
3815.0	2.62123	47.7	39.2
3815.2	2.62109	38.5	33.6
3815.4	2.62096	28.1	28.0
3815.6	2.62082	19.2	23.3
3815.8	2.62068	12.1	18.9
3816.0	2.62055	8.4	17.7
3816.2	2.62041	8.2	17.2
3816.4	2.62027	10.9	[illegible]
3816.6	2.62013	16.5	[illegible]
3816.8	2.62000	24.6	[illegible]
3817.0	2.61986	31.6	28.9
3817.2	2.61972	42.2	33.4
3817.4	2.61958	49.3	37.6
3817.6	2.61945	55.8	41.6
3817.8	2.61931	59.3	44.8
[illegible]	[illegible]	[illegible]	[illegible]

Sam. No.		33	34
p(atm)		5.26 x 10^{-3}	5.26 x 10^{-1}
P_e(atm)		5.02 x 10^{0}	1.002 x 10^{1}
w(gm/cm^2)		8.0 x 10^{-4}	8.0 x 10^{-4}
ν (cm^{-1})	λ (micron)	T x 100	T x 100
3828.0	2.61233	75.3	67.5
3828.2	2.61219	76.7	[illegible]
3828.4	2.61206	78.5	69.6
3828.6	2.61192	79.4	70.5
3828.8	2.61178	80.4	71.0
3829.0	2.61165	81.7	71.4
3829.2	2.61151	82.0	71.3
3829.4	2.61138	81.9	70.9
3829.6	2.61124	81.7	70.4
3829.8	2.61110	80.9	69.4
3830.0	2.61097	79.4	68.0
3830.2	2.61083	77.4	66.3
3830.4	2.61069	74.7	64.2
3830.6	2.61056	71.3	61.7
3830.8	2.61042	66.1	58.5
3831.0	2.61028	59.0	55.3
3831.2	2.61015	51.0	52.3
3831.4	2.61001	42.7	49.7
3831.6	2.60988	37.4	48.1
3831.8	2.60974	37.3	48.0
3832.0	2.60960	42.1	49.2
3832.2	2.60947	49.1	51.2
3832.4	2.60933	56.5	53.6
3832.6	2.60919	62.4	55.9
3832.8	2.60906	67.3	57.6
3833.0	2.60892	70.1	58.8
3833.2	2.60879	71.3	59.0
3833.4	2.60865	[illegible]	[illegible]
3833.6	2.60851	70.6	57.8
3833.8	2.60838	68.4	55.8
3834.0	2.60824	64.5	53.5
3834.2	2.60811	58.7	50.4
3834.4	2.60797	50.6	46.6
3834.6	2.60783	41.8	43.3
3834.8	2.60770	34.0	40.6
3835.0	2.60756	30.4	38.7
3835.2	2.60743	32.4	38.4
3835.4	2.60729	38.6	39.1
3835.6	2.60715	45.3	40.2
3835.8	2.60702	50.4	40.8
3836.0	2.60688	52.9	40.8
3836.2	2.60675	52.3	39.4
3836.4	2.60661	49.6	37.1
3836.6	2.60647	44.6	33.7
3836.8	2.60634	37.5	29.8
3837.0	2.60620	29.1	25.7
3837.2	2.60607	20.6	21.5
3837.4	2.60593	13.3	17.8
3837.6	2.60580	8.4	15.2
3837.8	2.60566	6.7	14.1
3838.0	2.60552	7.3	14.6
3838.2	2.60539	11.6	16.0
3838.4	2.60525	18.0	18.7
3838.6	2.60512	25.2	21.8
3838.8	2.60498	[illegible]	25.6
3839.0	2.60485	38.4	29.9
3839.2	2.60471	42.2	31.6
3839.4	2.60457	43.7	33.8
3839.6	2.60444	43.0	35.1
3839.8	2.60430	42.0	[illegible]
3840.0	2.60417	42.0	37.3
3840.2	2.60403	42.6	[illegible]
3840.4	2.60390	42.1	38.1
3840.6	2.60376	39.8	38.5
3840.8	2.60362	37.1	38.8
[illegible]	[illegible]	[illegible]	[illegible]

Sam. No.		33	34
p(atm)		5.26 x 10^{-3}	5.26 x 10^{-1}
P_e(atm)		5.02 x 10^{0}	1.002 x 10^{1}
w(gm/cm^2)		8.0 x 10^{-4}	8.0 x 10^{-4}
ν (cm^{-1})	λ (micron)	T x 100	T x 100
3852.0	2.59605	7.2	11.0
3852.2	2.59592	7.5	10.1
3852.4	2.59578	10.0	9.9
3852.6	2.59565	12.9	10.1
3852.8	2.59551	14.0	9.9
3853.0	2.59538	12.5	9.0
3853.2	2.59525	9.6	7.8
3853.4	2.59511	6.7	6.6
3853.6	2.59498	4.6	5.7
3853.8	2.59484	3.7	5.1
3854.0	2.59471	3.6	5.2
3854.2	2.59457	4.4	5.9
3854.4	2.59444	6.9	7.5
3854.6	2.59430	11.9	10.5
3854.8	2.59417	18.8	14.3
3855.0	2.59403	27.2	18.7
3855.2	2.59390	36.1	23.7
3855.4	2.59376	43.5	28.7
3855.6	2.59363	49.3	33.4
3855.8	2.59350	53.7	37.3
3856.0	2.59336	56.7	40.8
3856.2	2.59323	57.8	43.5
3856.4	2.59309	56.6	45.1
3856.6	2.59296	53.4	46.2
3856.8	2.59282	50.7	47.2
3857.0	2.59269	50.9	[illegible]
3857.2	2.59255	55.2	51.1
3857.4	2.59242	61.0	53.8
3857.6	2.59229	67.0	57.0
3857.8	2.59215	71.6	59.8
3858.0	2.59202	74.6	62.5
3858.2	2.59188	77.1	64.7
3858.4	2.59175	78.7	66.5
3858.6	2.59161	79.9	67.8
3858.8	2.59148	80.6	59.8
3859.0	2.59134	81.0	69.5
3859.2	2.59121	81.5	70.0
3859.4	2.59108	81.6	70.3
3859.6	2.59094	81.6	70.3
3859.8	2.59081	81.5	70.0
3860.0	2.59067	80.8	69.4
3860.2	2.59054	79.6	68.4
3860.4	2.59041	77.8	66.8
3860.6	2.59027	75.3	64.7
3860.8	2.59014	71.3	62.2
3861.0	2.59000	65.3	59.0
3861.2	2.58987	57.2	55.5
3861.4	2.58973	48.6	52.3
3861.6	2.58960	42.5	50.2
3861.8	2.58947	41.7	49.3
3862.0	2.58933	46.4	53.2
3862.2	[illegible]	53.8	[illegible]
3862.4	2.58906	63.2	54.2
3862.6	2.58893	66.8	56.1
3862.8	2.58880	67.5	57.4
3863.0	2.58866	68.5	58.2
3863.2	2.58853	68.1	58.0
3863.4	2.58839	66.7	56.9
3863.6	2.58826	64.4	55.2
3863.8	2.58813	60.5	52.8
3864.0	2.58799	55.9	49.6
3864.2	2.58786	48.4	46.1
3864.4	2.58772	41.5	42.6
3864.6	2.58759	33.8	39.3
3864.8	2.58746	26.0	36.4
[illegible]	[illegible]	[illegible]	[illegible]

Sam. No.		33	34
p(atm)		5.26 x 10^{-3}	5.26 x 10^{-1}
P_e(atm)		5.02 x 10^{0}	1.002 x 10^{1}
w(gm/cm^2)		8.0 x 10^{-4}	8.0 x 10^{-4}
ν (cm^{-1})	λ (micron)	T x 100	T x 100
3876.0	2.57998	82.6	73.6
3876.2	2.57985	84.1	75.3
3876.4	2.57971	85.2	76.5
3876.6	2.57958	[illegible]	77.5
3876.8	2.57945	86.7	74.3
3877.0	2.57931	87.1	78.9
3877.2	2.57918	87.3	79.1
3877.4	2.57905	87.4	79.1
3877.6	2.57891	87.4	78.9
3877.8	2.57878	87.1	78.7
3878.0	2.57865	86.6	78.1
3878.2	2.57852	86.1	77.1
3878.4	2.57838	84.9	76.0
3878.6	2.57825	83.4	74.2
3878.8	2.57812	81.3	72.0
3879.0	2.57798	78.1	69.4
3879.2	2.57785	73.7	66.0
3879.4	2.57772	67.3	61.7
3879.6	2.57759	58.6	57.3
3879.8	2.57745	49.1	53.3
3880.0	2.57732	40.6	49.7
3880.2	2.57719	35.9	47.6
3880.4	2.57705	35.9	47.1
3880.6	2.57692	39.9	48.2
3880.8	2.57679	44.9	50.2
3881.0	2.57665	50.1	53.2
3881.2	2.57652	56.7	56.6
3881.4	[illegible]	63.8	[illegible]
3881.6	2.57626	[illegible]	63.4
3881.8	2.57612	75.1	66.1
3882.0	2.57599	77.7	69.4
3882.2	2.57586	79.1	69.7
3882.4	2.57573	79.2	70.3
3882.6	2.57559	77.4	70.3
3882.8	2.57546	75.3	67.5
3883.0	2.57533	72.5	64.9
3883.2	2.57520	71.2	64.3
3883.4	2.57506	71.9	67.7
3883.6	2.57493	73.6	67.2
3883.8	2.57480	74.4	66.3
3884.0	2.57467	74.3	64.6
3884.2	2.57453	72.5	61.9
3884.4	2.57440	69.0	57.8
3884.6	2.57427	62.5	52.4
3884.8	2.57414	53.4	46.1
3885.0	2.57400	41.5	38.8
3885.2	2.57387	28.3	32.2
3885.4	2.57374	18.7	27.1
3885.6	2.57361	15.2	25.0
3885.8	2.57347	17.5	25.7
3886.0	2.57334	26.4	29.2
3886.2	2.57321	36.7	35.2
3886.4	2.57308	48.8	42.5
3886.6	2.57294	59.4	49.7
3886.8	2.57281	67.4	[illegible]
3887.0	2.57268	73.3	61.1
3887.2	2.57255	77.1	65.0
3887.4	2.57241	80.3	68.4
3887.6	2.57228	82.2	71.4
3887.8	2.57215	83.4	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

Table 5-8 (Cont'd)

Sam. No.		33	34
p(atm)		5.26 x 10^-?	5.26 x 10^-?
P_e(atm)		5.02 x 10^0	1.002 x 10
w(gm/cm²)		8.0 x 10^{-4}	8.0 x 10^{-4}
ν (cm^{-1})	λ (micron)	T x 100	T x 100
3900.0	2.56410	55.1	48.4
3900.2	2.56397	62.1	51.7
3900.4	2.56384	66.0	53.2
3900.6	2.56371	67.0	53.6
3900.8	2.56358	65.3	52.1
3901.0	2.56345	60.2	48.5
3901.2	2.56331	51.7	43.5
3901.4	2.56318	40.1	37.6
3901.6	2.56305	29.2	32.6
3901.8	2.56292	22.9	29.3
3902.0	2.56279	23.4	29.7
3902.2	2.56266	32.2	33.4
3902.4	2.56253	42.8	38.5
3902.6	2.56239	52.1	43.6
3902.8	2.56226	57.7	47.0
3903.0	2.56213	59.3	48.3
3903.2	2.56200	56.7	48.1
3903.4	2.56187	50.8	46.7
3903.6	2.56174	42.7	44.3
3903.8	2.56161	34.0	42.1
3904.0	2.56148	28.2	41.0
3904.2	2.56134	28.4	41.9
3904.4	2.56121	35.0	44.9
3904.6	2.56108	44.8	49.1
3904.8	2.56095	54.7	53.9
3905.0	2.56082	61.6	58.3
3905.2	2.56069	65.6	61.7
3905.4	2.56056	66.6	64.1
3905.6	2.56043	66.1	65.9
3905.8	[illegible]	[illegible]	[illegible]
3906.0	2.56016	67.0	69.4
3906.2	2.56003	71.8	72.0
3906.4	2.55990	77.5	74.9
3906.6	2.55977	82.5	77.9
3906.8	2.55964	86.4	80.7
3907.0	2.55951	89.2	83.2
3907.2	2.55938	91.1	85.2
3907.4	2.55925	92.3	86.8
3907.6	2.55912	93.3	88.0
3907.8	2.55899	94.0	89.1
3908.0	2.55885	94.6	90.0
3908.2	2.55872	95.2	90.7
3908.4	2.55859	95.6	91.4
3908.6	2.55846	96.0	92.0
3908.8	2.55833	96.4	92.5
3909.0	2.55820	96.6	92.9
3909.2	2.55807	96.5	93.2
3909.4	2.55794	96.7	93.5
3909.6	2.55781	96.9	93.6
3909.8	2.55768	97.1	93.9
3910.0	2.55754	97.2	94.4
3910.2	2.55741	97.2	94.6
3910.4	2.55728	97.3	94.6
3910.6	2.55715	97.6	94.7
3910.8	2.55702	97.5	94.7
3911.0	2.55689	97.6	94.9
3911.2	2.55676	97.7	94.9
3911.4	2.55663	97.7	95.0
3911.6	2.55650	97.8	95.0
3911.8	2.55637	97.6	94.9
3912.0	2.55624	97.5	94.9
3912.2	2.55611	97.6	94.8
3912.4	2.55598	97.3	94.9
3912.6	2.55585	97.1	94.9
3912.8	2.55572	97.1	94.6
3913.0	2.55558	97.3	94.6
3913.2	2.55545	97.2	94.3
3913.4	2.55532	[illegible]	94.6
3913.6	2.55519	97.8	94.2
3913.8	2.55506	96.0	94.0
3914.0	[illegible]	[illegible]	[illegible]
3914.2	[illegible]	[illegible]	[illegible]
3914.4	[illegible]	[illegible]	[illegible]
3914.6	[illegible]	[illegible]	[illegible]
3914.8	[illegible]	[illegible]	[illegible]
3915.0	[illegible]	[illegible]	[illegible]
3915.2	[illegible]	[illegible]	[illegible]
3915.4	[illegible]	[illegible]	[illegible]
3915.6	[illegible]	[illegible]	[illegible]
3915.8	[illegible]	[illegible]	[illegible]
3916.0	[illegible]	[illegible]	[illegible]
3916.2	[illegible]	[illegible]	[illegible]
3916.4	[illegible]	[illegible]	[illegible]
3916.6	[illegible]	[illegible]	[illegible]
3916.8	[illegible]	[illegible]	[illegible]
3917.0	[illegible]	[illegible]	[illegible]
3917.2	[illegible]	[illegible]	[illegible]
3917.4	[illegible]	[illegible]	[illegible]
3917.6	[illegible]	[illegible]	[illegible]
3917.8	[illegible]	[illegible]	[illegible]
3918.0	[illegible]	[illegible]	[illegible]
3918.2	[illegible]	[illegible]	[illegible]
3918.4	[illegible]	[illegible]	[illegible]
3918.6	[illegible]	[illegible]	[illegible]
3918.8	[illegible]	[illegible]	[illegible]
3919.0	[illegible]	[illegible]	[illegible]
3919.2	[illegible]	[illegible]	[illegible]
3919.4	[illegible]	[illegible]	[illegible]
3919.6	[illegible]	[illegible]	[illegible]
3919.8	[illegible]	[illegible]	[illegible]
3920.0	[illegible]	[illegible]	[illegible]
3920.2	[illegible]	[illegible]	[illegible]
3920.4	[illegible]	[illegible]	[illegible]
3920.6	[illegible]	[illegible]	[illegible]
3920.8	[illegible]	[illegible]	[illegible]
3921.0	[illegible]	[illegible]	[illegible]
3921.2	[illegible]	[illegible]	[illegible]
3921.4	[illegible]	[illegible]	[illegible]
3921.6	[illegible]	[illegible]	[illegible]
3921.8	[illegible]	[illegible]	[illegible]
3922.0	[illegible]	[illegible]	[illegible]
3922.2	[illegible]	[illegible]	[illegible]
3922.4	[illegible]	[illegible]	[illegible]
3922.6	[illegible]	[illegible]	[illegible]
3922.8	[illegible]	[illegible]	[illegible]
3923.0	[illegible]	[illegible]	[illegible]
3923.2	[illegible]	[illegible]	[illegible]
3923.4	[illegible]	[illegible]	[illegible]
3923.6	[illegible]	[illegible]	[illegible]
3923.8	[illegible]	[illegible]	[illegible]

Sam. No.		33	34
p(atm)		5.26 x 10^-?	5.26 x 10^-?
P_e(atm)		5.02 x 10^0	1.002 x 10
w(gm/cm²)		8.0 x 10^{-4}	8.0 x 10^{-4}
ν (cm^{-1})	λ (micron)	T x 100	T x 100
3924.0	2.5484-	82.4	82.2
3924.2	2.54829	91.2	81.1
3924.4	2.54816	79.5	80.2
3924.6	2.54803	77.4	79.3
3924.8	2.54790	76.7	78.8
3925.0	2.54777	71.8	78.4
3925.2	2.54764	71.5	78.8
3925.4	2.54751	74.9	80.1
3925.6	2.54738	80.3	82.3
3925.8	2.54725	85.4	84.5
3926.0	2.54712	89.5	86.8
3926.2	2.54699	92.3	88.7
3926.4	2.54686	94.0	90.5
3926.6	2.54673	95.2	91.8
3926.8	2.54660	95.9	92.5
3927.0	2.54647	96.2	93.2
3927.2	2.54634	96.4	93.4
3927.4	2.54621	96.4	93.5
3927.6	2.54608	96.1	93.6
3927.8	2.54595	95.7	93.4
3928.0	2.54582	95.0	93.1
3928.2	2.54570	[illegible]	92.8
3928.4	2.54557	[illegible]	92.5
3928.6	2.54544	93.6	92.1
3928.8	2.54531	92.3	91.6
3929.0	2.54518	90.6	91.1
3929.2	2.54505	89.0	90.4
3929.4	2.54492	88.1	90.0
3929.6	2.54479	88.1	89.5
3929.8	2.54466	90.6	89.2
3930.0	2.54453	88.0	88.8
3930.2	2.54440	88.6	88.5
3930.4	2.54427	87.6	88.1
3930.6	2.54414	87.2	87.6
3930.8	2.54401	87.6	87.2
3931.0	2.54388	86.9	86.7
3931.2	2.54375	88.9	85.0
3931.4	2.54362	87.6	84.1
3931.6	2.54349	83.5	81.1
3931.8	2.54336	76.6	76.7
3932.0	2.54323	67.7	71.2
3932.2	2.54311	59.6	65.8
3932.4	2.54298	56.1	62.7
3932.6	2.54285	61.1	64.3
3932.8	2.54272	72.2	70.6
3933.0	2.54259	83.5	78.1
3933.2	2.54246	89.2	83.7
3933.4	2.54233	91.6	87.1
3933.6	2.54220	92.5	88.8
3933.8	2.54207	96.4	89.6
3934.0	2.54194	90.0	89.9
3934.2	2.54181	91.0	90.6
3934.4	2.54168	91.0	91.7
3934.6	2.54155	94.7	92.8
3934.8	2.54143	96.1	93.0
3935.0	2.54130	96.8	94.0
3935.2	2.54117	97.2	94.2
3935.4	2.54104	97.6	94.7
3935.6	2.54091	97.9	95.2
3935.8	2.54078	98.1	95.6
3936.0	2.54065	98.6	95.6
3936.2	2.54052	98.6	96.0
3936.4	2.54039	98.6	96.6
3936.6	2.54026	98.3	97.0
3936.8	2.54013	98.7	97.0
3937.0	2.54001	98.6	96.9
3937.2	2.53988	98.5	96.6
3937.4	2.53975	98.3	96.0
3937.6	2.53962	98.8	96.6
3937.8	2.53949	97.1	96.5
3938.0	[illegible]	[illegible]	[illegible]
3938.2	[illegible]	[illegible]	[illegible]
3938.4	[illegible]	[illegible]	[illegible]
3938.6	[illegible]	[illegible]	[illegible]
3938.8	[illegible]	[illegible]	[illegible]
3939.0	[illegible]	[illegible]	[illegible]
3939.2	[illegible]	[illegible]	[illegible]
3939.4	[illegible]	[illegible]	[illegible]
3939.6	[illegible]	[illegible]	[illegible]
3939.8	[illegible]	[illegible]	[illegible]
3940.0	[illegible]	[illegible]	[illegible]
3940.2	[illegible]	[illegible]	[illegible]
3940.4	[illegible]	[illegible]	[illegible]
3940.6	[illegible]	[illegible]	[illegible]
3940.8	[illegible]	[illegible]	[illegible]
3941.0	[illegible]	[illegible]	[illegible]
3941.2	[illegible]	[illegible]	[illegible]
3941.4	[illegible]	[illegible]	[illegible]
3941.6	[illegible]	[illegible]	[illegible]
3941.8	[illegible]	[illegible]	[illegible]
3942.0	[illegible]	[illegible]	[illegible]
3942.2	[illegible]	[illegible]	[illegible]
3942.4	[illegible]	[illegible]	[illegible]
3942.6	[illegible]	[illegible]	[illegible]
3942.8	[illegible]	[illegible]	[illegible]
3943.0	[illegible]	[illegible]	[illegible]
3943.2	[illegible]	[illegible]	[illegible]
3943.4	[illegible]	[illegible]	[illegible]
3943.6	[illegible]	[illegible]	[illegible]
3943.8	[illegible]	[illegible]	[illegible]
3944.0	[illegible]	[illegible]	[illegible]
3944.2	[illegible]	[illegible]	[illegible]
3944.4	[illegible]	[illegible]	[illegible]
3944.6	[illegible]	[illegible]	[illegible]
3944.8	[illegible]	[illegible]	[illegible]
3945.0	[illegible]	[illegible]	[illegible]
3945.2	[illegible]	[illegible]	[illegible]
3945.4	[illegible]	[illegible]	[illegible]
3945.6	[illegible]	[illegible]	[illegible]
3945.8	[illegible]	[illegible]	[illegible]
3946.0	[illegible]	[illegible]	[illegible]
3946.2	[illegible]	[illegible]	[illegible]
3946.4	[illegible]	[illegible]	[illegible]
3946.6	[illegible]	[illegible]	[illegible]
3946.8	[illegible]	[illegible]	[illegible]
3947.0	[illegible]	[illegible]	[illegible]
3947.2	[illegible]	[illegible]	[illegible]
3947.4	[illegible]	[illegible]	[illegible]
3947.6	[illegible]	[illegible]	[illegible]
3947.8	[illegible]	[illegible]	[illegible]

Sam. No.		33	34
p(atm)		5.26 x 10^-?	5.26 x 10^-?
P_e(atm)		5.02 x 10^0	1.002 x 10
w(gm/cm²)		8.0 x 10^{-4}	8.0 x 10^{-4}
ν (cm^{-1})	λ (micron)	T x 100	T x 100
3948.0	2.53293	85.4	85.8
3948.2	2.53280	87.4	87.1
3948.4	2.53267	90.8	88.9
3948.6	2.53254	92.4	89.4
3948.8	2.53241	92.6	90.7
3949.0	2.53229	91.7	90.6
3949.2	2.53216	89.9	90.0
3949.4	2.53203	87.9	89.4
3949.6	2.53190	85.2	89.0
3949.8	2.53177	84.0	88.7
3950.0	2.53165	84.4	89.0
3950.2	2.53152	86.6	89.6
3950.4	2.53139	89.2	90.5
3950.6	2.53126	91.5	91.7
3950.8	2.53113	93.5	92.7
3951.0	2.53100	95.2	93.6
3951.2	2.53088	96.3	94.4
3951.4	2.53075	97.0	94.8
3951.6	2.53062	97.4	95.3
3951.8	2.53049	97.6	95.5
3952.0	2.53036	97.5	95.6
3952.2	2.53024	97.3	95.7
3952.4	2.53011	96.8	95.7
3952.6	2.52998	96.4	95.6
3952.8	2.52985	95.8	95.6
3953.0	2.52972	95.5	95.5
3953.2	2.52960	95.7	95.4
3953.4	2.52947	96.3	95.8
3953.6	2.52934	97.1	96.0
3953.8	2.52921	97.4	96.3
3954.0	2.52908	98.3	96.5
3954.2	2.52896	98.3	96.8
3954.4	2.52883	98.7	97.0
3954.6	2.52870	98.7	97.6
3954.8	2.52857	98.6	97.1
3955.0	2.52845	98.5	97.1
3955.2	2.52832	98.4	97.0
3955.4	2.52819	98.3	97.2
3955.6	2.52806	98.5	97.1
3955.8	2.52793	98.6	97.0
3956.0	2.52781	98.4	96.8
3956.2	2.52768	98.1	96.6
3956.4	2.52755	97.4	96.3
3956.6	2.52742	96.7	96.2
3956.8	2.52729	96.1	96.0
3957.0	2.52717	96.1	96.0
3957.2	2.52704	96.0	96.0
3957.4	2.52691	97.4	96.2
3957.6	2.52678	97.7	96.3
3957.8	2.52666	97.7	96.4
3958.0	2.52653	97.6	96.3
3958.2	2.52640	97.7	96.7
3958.4	2.52627	98.0	96.8
3958.6	2.52615	98.4	97.1
3958.8	2.52602	98.7	97.1
3959.0	2.52589	98.6	97.1
3959.2	2.52576	98.1	97.0
3959.4	2.52564	97.9	97.0
3959.6	2.52551	97.6	96.9
3959.8	2.52538	98.1	97.0
3960.0	2.52525	98.4	97.1

Table 5-9 $\int_{\nu}^{\nu'} A(\nu)\, d\nu$

Sam. No.	33	34
p(atm)	$5.26 \times 10^{-?}$	$5.26 \times 10^{-?}$
P_e(atm)	5.02×10^{0}	1.002×10^{1}
w(gm/cm^2)	$8.0 \times 10^{-?}$	$8.0 \times 10^{-?}$
ν (cm^{-1})	cm^{-1}	cm^{-1}
3540.0	0.	0.
3540.5	0.017	0.014
3541.0	0.031	0.028
3541.5	0.050	0.044
3542.0	0.070	0.064
3542.5	0.098	0.089
3543.0	0.130	0.122
3543.5	0.180	0.165
[illegible]	[illegible]	0.214
3544.5	0.300	0.276
3545.0	0.407	0.356
3545.5	0.535	0.451
3546.0	0.621	0.540
3546.5	0.763	0.630
3547.0	0.860	0.750
3547.5	0.977	0.861
3548.0	1.039	0.926
3548.5	1.090	0.973
3549.0	1.120	1.011
3549.5	1.156	1.043
3550.0	1.184	1.072
3550.5	1.216	1.114
3551.0	1.252	1.139
3551.5	1.290	1.183
3552.0	1.376	1.241
3552.5	1.470	1.313
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

Sam. No.	33	34
p(atm)	$5.26 \times 10^{-?}$	$5.26 \times 10^{-?}$
P_e(atm)	5.02×10^{0}	1.002×10^{1}
w(gm/cm^2)	$8.0 \times 10^{-?}$	$8.0 \times 10^{-?}$
ν (cm^{-1})	cm^{-1}	cm^{-1}
3587.5	6.695	6.368
3588.0	6.890	6.581
3588.5	7.169	6.816
3589.0	7.402	7.124
3589.5	7.707	7.354
3590.0	7.814	7.498
3590.5	7.885	7.596
3591.0	[illegible]	[illegible]
3591.5	7.981	7.736
3592.0	8.024	7.748
3592.5	8.078	7.867
3593.0	8.168	7.952
3593.5	8.296	8.092
3594.0	8.405	8.156
3594.5	8.492	8.257
3595.0	8.671	8.371
3595.5	8.773	8.505
3596.0	8.930	8.659
3596.5	9.039	8.750
3597.0	9.111	8.899
3597.5	9.172	8.916
3598.0	9.266	8.991
3598.5	9.311	9.076
3599.0	9.414	9.156
3599.5	9.487	9.235
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

Sam. No.	33	34
p(atm)	$5.26 \times 10^{-?}$	$5.26 \times 10^{-?}$
P_e(atm)	5.02×10^{0}	1.002×10^{1}
w(gm/cm^2)	$8.0 \times 10^{-?}$	$8.0 \times 10^{-?}$
ν (cm^{-1})	cm^{-1}	cm^{-1}
3635.0	21.471	21.968
3635.5	21.532	22.044
3636.0	21.583	22.129
3636.5	21.631	22.227
3637.0	21.682	22.294
3637.5	21.762	22.362
3638.0	21.817	22.443
3638.5	21.886	22.523
3639.0	21.940	22.598
3639.5	21.988	22.670
3640.0	22.036	22.761
3640.5	22.083	22.811
3641.0	22.132	22.888
3641.5	22.192	22.973
3642.0	22.269	23.061
3642.5	22.396	23.159
3643.0	22.440	23.250
3643.5	22.518	23.356
3644.0	22.575	23.455
3644.5	22.666	23.565
3645.0	22.752	23.692
3645.5	22.855	23.866
3646.0	22.998	24.035
3646.5	23.227	24.278
3647.0	23.537	24.576
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

Sam. No.	33	34
p(atm)	$5.26 \times 10^{-?}$	$5.26 \times 10^{-?}$
P_e(atm)	5.02×10^{0}	1.002×10^{1}
w(gm/cm^2)	$8.0 \times 10^{-?}$	$8.0 \times 10^{-?}$
ν (cm^{-1})	cm^{-1}	cm^{-1}
3682.5	38.762	41.301
3683.0	38.830	41.415
3683.5	38.906	41.529
3684.0	38.976	41.649
3684.5	39.065	41.778
3685.0	39.161	41.917
3685.5	39.261	42.047
3686.0	39.371	42.236
3686.5	39.509	42.436
3687.0	39.697	42.641
3687.5	39.966	42.988
3688.0	40.363	43.353
3688.5	40.793	43.756
3689.0	41.229	44.150
3689.5	41.569	44.539
3690.0	41.838	44.816
3690.5	42.104	45.138
3691.0	42.419	45.401
3691.5	42.750	45.688
3692.0	43.267	45.962
[illegible]	[illegible]	46.144
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

Sam. No.	33	34
p(atm)	$5.26 \times 10^{-?}$	$5.26 \times 10^{-?}$
P_e(atm)	5.02×10^{0}	1.002×10^{1}
w(gm/cm^2)	$8.0 \times 10^{-?}$	$8.0 \times 10^{-?}$
ν (cm^{-1})	cm^{-1}	cm^{-1}
3730.0	53.800	58.191
3730.5	53.938	58.377
3731.0	54.110	58.597
3731.5	[illegible]	[illegible]
3732.0	54.769	59.191
3732.5	55.146	59.596
3733.0	55.475	59.866
3733.5	55.733	60.168
3734.0	55.991	60.471
3734.5	56.312	60.801
3735.0	56.697	61.176
3735.5	57.390	61.550
3736.0	57.456	61.931
3736.5	57.847	62.320
3737.0	58.235	62.735
3737.5	58.516	63.099
3738.0	[illegible]	63.437
3738.5	[illegible]	63.680
3739.0	59.322	63.928
3739.5	59.689	64.159
3740.0	59.846	64.303
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

Table 5-9 $\int_{\nu'}^{\nu} A(\nu)\, d\nu$ (cont'd)

Sam. No.	33	34
p(atm)	5.26 × $10^{-?}$	5.26 × $10^{-?}$
P_e(atm)	5.02 × 10^{0}	1.002 × 10^{1}
w(gm/cm²)	8.0 × 10^{-4}	8.0 × 10^{-4}
ν (cm⁻¹)	ν'=3360 cm⁻¹	ν'=3360 cm⁻¹
3777.5	75.756	82.453
3778.0	75.836	82.555
3778.5	75.939	82.670
3779.0	76.044	82.820
3779.5	76.320	83.003
3780.0	76.542	83.177
3780.5	76.687	83.326
3781.0	76.775	83.461
3781.5	76.810	83.530
3782.0	76.855	83.623
3782.5	76.944	83.701
3783.0	76.990	83.777
3783.5	77.040	83.655
3784.0	77.107	83.941
3784.5	77.200	84.010
3785.0	77.318	84.150
3785.5	77.407	84.235

Sam. No.	33	34
ν (cm⁻¹)	ν'=3360 cm⁻¹	ν'=3360 cm⁻¹
3825.0	91.911	100.884
3825.5	92.026	101.046
3826.0	92.159	101.216
3826.5	92.337	101.432
3827.0	92.556	101.599
3827.5	92.744	101.780
3828.0	92.881	101.943
3828.5	92.995	102.116
3829.0	93.392	102.261
3829.5	93.101	102.426
3830.0	93.270	102.550
3830.5	93.395	102.729
3831.0	93.561	102.933
3831.5	93.816	103.176
3832.0	94.125	103.432
3832.5	94.360	103.673
3833.0	94.533	103.888

Sam. No.	33	34
ν (cm⁻¹)	ν'=3360 cm⁻¹	ν'=3360 cm⁻¹
3872.5	113.661	125.471
3873.0	113.760	125.567
3873.5	113.920	125.705
3874.0	114.159	126.010
3874.5	114.444	126.252
3875.0	114.695	126.479
3875.5	114.861	126.663
3876.0	114.944	126.810
3876.5	115.342	126.932
3877.0	115.110	127.062
3877.5	115.171	127.167
3878.0	115.238	127.263
3878.5	115.310	127.375
3879.0	[illegible]	127.530
3879.5	115.544	127.684
3880.0	115.760	127.912
3880.5	[illegible]	128.179

Sam. No.	33	34
ν (cm⁻¹)	ν'=3360 cm⁻¹	ν'=3360 cm⁻¹
3920.0	127.268	140.621
3920.5	127.431	140.752
3921.0	127.521	140.856
3921.5	127.565	140.920
3922.0	127.555	140.962
3922.5	127.623	141.031
3923.0	127.657	141.095
3923.5	127.711	141.147
3924.0	127.791	141.227
3924.5	127.887	141.322
3925.0	128.011	141.427
3925.5	128.165	141.533
3926.0	128.245	141.611
3926.5	128.261	141.665
3927.0	128.285	141.726
3927.5	128.363	141.737
3928.0	128.424	141.769

Table 5-10 $\frac{1}{u}\int_{\nu'}^{\nu} -\ln T(\nu)\,d\nu$

Sam. No.	33	34
p(atm)	5.26 × 10^{-3}	5.26 × 10^{-3}
P_e(atm)	5.02 × 10^{0}	1.002 × 10^{1}
u(gm/cm²)	8.0 × 10^{-4}	8.0 × 10^{-4}
ν (cm^{-1})	ν'-3560 cm^{-1}	ν'-3560 cm^{-1}
3540.0	0.	0.
3540.5	2.1135466+001	1.7864400+001
3541.0	4.2170196+001	3.5696677+001
3541.5	6.3167056+001	5.6107737+001
3542.0	8.8556155+001	8.0753392+001
3542.5	1.2403579+002	1.1280528+002
3543.0	1.7633824+002	1.5561781+002
3543.5	2.4148930+002	2.1564681+002
3544.0	3.1718495+002	2.7574[illegible]+002
3544.5	4.0147890+002	3.5[illegible]+002
3545.0	5.3904350+002	4.6373485+002
3545.5	7.2238150+002	5.9767141+002
3546.0	8.4054679+002	7.1740641+002
3546.5	9.5286211+002	8.4303184+002
3547.0	1.1875149+003	1.0766110+003
3547.5	1.3550352+003	1.1717651+003
3548.0	1.4381464+003	1.2584058+003
3548.5	1.5039948+003	1.3199228+003
3549.0	1.5533279+003	1.3687353+003
3549.5	1.5896406+003	1.4093349+003
3550.0	1.6254372+003	1.4472769+003
3550.5	1.6658281+003	1.4876424+003
3551.0	1.7106526+003	1.5335168+003
3551.5	1.7705934+003	1.5909630+003
3552.0	1.8766696+003	1.6675670+003
3552.5	2.0225773+003	1.7600246+003
3553.0	2.1251310+003	1.8654487+003
3553.5	2.1967654+003	1.9177440+003
3554.0	2.2771910+003	1.9857561+003
3554.5	2.3340136+003	2.0405044+003
3555.0	2.3674588+003	2.0790630+003
3555.5	2.3938247+003	2.1089176+003
3556.0	2.4178785+003	2.1354205+003
3556.5	2.4436290+003	2.1613686+003
3557.0	2.4766134+003	2.1885934+003
3557.5	2.5131621+003	2.2176735+003
3558.0	2.5439419+003	2.2462909+003
3558.5	2.5724913+003	2.2766976+003
3559.0	2.6037771+003	2.3111104+003
3559.5	2.6472444+003	2.3476620+003
3560.0	2.7263571+003	2.4196729+003
3560.5	2.8297635+003	2.4946324+003
3561.0	2.9011981+003	2.5644426+003
3561.5	2.9577463+003	2.6270846+003
3562.0	3.0158444+003	2.6911469+003
3562.5	3.0917[illegible]+003	2.7638287+003
3563.0	3.170[illegible]+003	2.8442526+003
3563.5	3.269[illegible]35+003	2.9331875+003
3564.0	3.381[illegible]25+003	3.0333785+003
3564.5	3.4843237+003	3.1457589+003
3565.0	3.6049963+003	3.2819612+003
3565.5	[illegible]7978918+003	3.4670348+003
3566.0	4.1064253+003	3.7206253+003
3566.5	4.4962770+003	4.0356795+003
3567.0	4.9090738+003	4.3859143+003
3567.5	5.2554902+003	4.7328627+003
3568.0	5.7729988+003	5.1893177+003
3568.5	6.2585225+003	5.5729127+003
3569.0	6.5201720+003	5.8223376+003
3569.5	6.6509675+003	5.9853987+003
3570.0	6.7350417+003	6.0360347+003
3570.5	6.8165050+003	6.1082755+003
3571.0	6.8933969+003	6.2665796+003
3571.5	6.9424742+003	6.3279663+003
3572.0	6.9780371+003	6.3764495+003
3572.5	7.0099107+003	6.4178212+003
3573.0	7.0437101+003	6.4575040+003
3573.5	7.0820827+003	6.4985994+003
3574.0	7.1244013+003	6.5415130+003
3574.5	7.1774786+003	6.5870426+003
3575.0	7.2322285+003	6.6331403+003
3575.5	7.2757052+003	6.6768119+003
3576.0	7.3111723+003	6.7176121+003
3576.5	7.3538568+003	6.7604184+003
3577.0	7.4126173+003	6.8085317+003
3577.5	7.4711525+003	6.8573053+003
3578.0	7.5125908+003	6.9012025+003
3578.5	7.5459723+003	6.9419256+003
3579.0	7.585[illegible]324+003	6.9846932+003
3579.5	7.6374609+003	7.0363219+003
3580.0	7.7141795+003	7.1008891+003
3580.5	7.7913640+003	7.1672724+003
3581.0	7.8371451+003	7.2211459+003
3581.5	7.8728578+003	7.2681067+003
3582.0	7.9082907+003	7.3138051+003
3582.5	7.9524198+003	7.3642639+003
3583.0	8.0051913+003	7.4223936+003
3583.5	8.0699801+003	7.4885043+003
3584.0	8.1425013+003	7.5629373+003
3584.5	8.2087595+003	7.6466205+003
3585.0	8.2845293+003	7.7481932+003
3585.5	8.3965924+003	7.8869[illegible]+003
3586.0	8.5803693+003	8.0091030+003
3586.5	8.9542920+003	8.3860316+003
3587.0	9.4385277+003	8.7463048+003
3587.5	9.8330117+003	9.0976625+003
3588.0	1.0179978+004	9.4472162+003
3588.5	1.0590719+004	9.8662227+003
3589.0	1.1293739+004	1.0420765+004
3589.5	1.1670651+004	1.0807329+004
3590.0	1.1931824+004	1.1021000+004
3590.5	1.1924094+004	1.1156320+004
3591.0	1.1992487+004	1.1297386+004
3591.5	1.2049636+004	1.1363400+004
3592.0	1.2196299+004	1.1625134+004

Sam. No.	33	34
p(atm)	5.26 × 10^{-3}	5.26 × 10^{-3}
P_e(atm)	5.02 × 10^{0}	1.002 × 10^{1}
u(gm/cm²)	8.0 × 10^{-4}	8.0 × 10^{-4}
ν (cm^{-1})	ν'-3560 cm^{-1}	ν'-3560 cm^{-1}
3592.5	1.2178819+004	1.1518520+004
3593.0	1.2300157+004	1.1634008+004
3593.5	1.2485304+004	1.1774162+004
3594.0	1.2636573+004	1.1917605+004
3594.5	1.2736370+004	1.2058780+004
3595.0	1.2911238+004	1.2219465+004
3595.5	1.3171193+004	1.2414460+004
3596.0	1.3408118+004	1.2608427+004
3596.5	1.3560118+004	1.2765071+004
3597.0	1.3658816+004	1.2886292+004
3597.5	1.3738996+004	1.2970674+004
3598.0	1.3[illegible]31+004	1.3[illegible]112+004
3598.5	1.3956[illegible]+004	1.3204419+004
3599.0	1.4068436+004	1.3313324+004
3599.5	1.4166139+004	1.3418677+004
3600.0	1.4270505+004	1.3527334+004
3600.5	1.4389850+004	1.3641448+004
3601.0	1.4542430+004	1.3763181+004
3601.5	1.4684482+004	1.3882438+004
3602.0	1.4777518+004	1.3985956+004
3602.5	1.4857647+004	1.4078490+004
3603.0	1.4936733+004	1.4164997+004
3603.5	1.5003079+004	1.4244398+004
3604.0	1.5036304+004	1.4318458+004
3604.5	1.5106081+004	1.4392598+004
3605.0	1.5161652+004	1.4473824+004
3605.5	1.5229328+004	1.4570280+004
3606.0	1.5319820+004	1.4693650+004
3606.5	1.5474291+004	1.4865206+004
3607.0	1.5761730+004	1.5100362+004
3607.5	1.6081542+004	1.5374719+004
3608.0	1.6321747+004	1.5666426+004
3608.5	1.6625903+004	1.6039740+004
3609.0	1.7287696+004	1.6592975+004
3609.5	1.8119914+004	1.7209083+004
3610.0	1.8537398+004	1.7654[illegible]+004
3610.5	1.8745690+004	1.7952207+004
3611.0	1.8900955+004	1.8189394+004
3611.5	1.9070100+004	1.8428192+004
3612.0	1.9336679+004	1.8720575+004
3612.5	1.9832009+004	1.9100291+004
3613.0	2.0370653+004	1.9504117+004
3613.5	2.0695646+004	1.9840495+004
3614.0	2.0928655+004	2.0125478+004
3614.5	2.1217331+004	2.0409069+004
3615.0	2.1521468+004	2.0687006+004
3615.5	2.1740162+004	2.0926773+004
3616.0	2.1902030+004	2.1136156+004
3616.5	2.2044530+004	2.1340622+004
3617.0	2.2225482+004	2.15[illegible]789+004
3617.5	2.2549919+004	2.1881862+004
3618.0	2.3011181+004	2.2257190+004
3618.5	2.3399196+004	2.2654651+004
3619.0	2.3794051+004	2.3062460+004
3619.5	2.4433037+004	2.3587946+004
3620.0	2.5172580+004	2.4124476+004
3620.5	2.5617707+004	2.4567355+004
3621.0	2.5912924+004	2.4911769+004
3621.5	2.6159608+004	2.5189493+004
3622.0	2.6372539+004	2.5410157+004
3622.5	2.6437300+004	2.5588761+004
3623.0	2.6540313+004	2.5745813+004
3623.5	2.6639124+004	2.5892492+004
3624.0	2.6730485+004	2.6035680+004
3624.5	2.6819620+004	2.6180670+004
3625.0	2.6917021+004	2.6338457+004
3625.5	2.7037895+004	2.6522171+004
3626.0	2.7208436+004	2.6747247+004
3626.5	2.7438577+004	2.7024393+004
3627.0	2.7689967+004	2.7364481+004
3627.5	2.8038743+004	2.7814623+004
3628.0	2.8694540+004	2.8452270+004
3628.5	2.9790316+004	2.9102228+004
3629.0	3.0928638+004	3.0278042+004
3629.5	3.2234756+004	3.1319620+004
3630.0	3.3357756+004	3.2245357+004
3630.5	3.3928080+004	3.2888962+004
3631.0	3.4246591+004	3.3315057+004
3631.5	3.4447981+004	3.3616296+004
3632.0	3.4595976+004	3.3851101+004
3632.5	3.4728877+004	3.4055672+004
3633.0	3.4879977+004	3.4261924+004
3633.5	3.5116777+004	3.4498884+004
3634.0	3.5427258+004	3.4751660+004
3634.5	3.5627344+004	3.4968611+004
3635.0	3.5739438+004	3.5134861+004
3635.5	3.5819959+004	3.5260061+004
3636.0	3.5885486+004	3.5382755+004
3636.5	3.5949153+004	3.5488772+004
3637.0	3.6015854+004	3.5592975+004
3637.5	3.6096379+004	3.5699495+004
3638.0	3.6197250+004	3.5809619+004
3638.5	3.6284972+004	3.5917250+004
3639.0	3.6360682+004	3.6018489+004
3639.5	3.6422984+004	3.6115291+004
3640.0	3.6485572+004	3.6210389+004
3640.5	3.6547168+004	3.6307080+004
3641.0	3.6611388+004	3.6408081+004
3641.5	3.6691580+004	3.6519224+004
3642.0	3.6794937+004	3.6644554+004
3642.5	3.6914472+004	3.6779939+004
3643.0	3.7028300+004	3.6917646+004
3643.5	3.7122338+004	3.7[illegible]3502+004
3644.0	3.7209381+004	3.7192118+004
3644.5	3.7304152+004	3.7345025+004

Sam. No.	33	34
p(atm)	5.26 × 10^{-3}	5.26 × 10^{-3}
P_e(atm)	5.02 × 10^{0}	1.002 × 10^{1}
u(gm/cm²)	8.0 × 10^{-4}	8.0 × 10^{-4}
ν (cm^{-1})	ν'-3560 cm^{-1}	ν'-3560 cm^{-1}
3645.0	3.7621775+004	3.7526344+004
3645.5	3.7580823+004	3.7752360+004
3646.0	3.7809721+004	3.8052709+004
3646.5	3.8194554+004	3.8467602+004
3647.0	3.8796622+004	3.9027967+004
3647.5	3.9611793+004	3.9714799+004
3648.0	4.0391229+004	4.0664250+004
3648.5	4.1100489+004	4.1262435+004
3649.0	4.2114591+004	4.2188029+004
3649.5	4.3468479+004	4.3214674+004
3650.0	4.4523567+004	4.4175244+004
3650.5	4.5385[illegible]+004	4.5028758+004
3651.0	4.6267830+004	4.5811970+004
3651.5	4.7054504+004	4.6497934+004
3652.0	4.7589009+004	4.7042860+004
3652.5	4.7893035+004	4.7450048+004
3653.0	4.8100824+004	4.7764638+004
3653.5	4.8265588+004	4.8026576+004
3654.0	4.8410783+004	4.8265312+004
3654.5	4.8559762+004	4.8506796+004
3655.0	4.8744555+004	4.8781672+004
3655.5	4.9030858+004	4.9135150+004
3656.0	4.9587776+004	4.9623646+004
3656.5	5.0476904+004	5.0223167+004
3657.0	5.1136929+004	5.0768449+004
3657.5	5.1463896+004	5.1163036+004
3658.0	5.1648880+004	5.1439510+004
3658.5	5.1775216+004	5.1645844+004
3659.0	5.1874280+004	5.1813059+004
3659.5	5.1965034+004	5.1960085+004
3660.0	5.2058336+004	5.2094835+004
3660.5	5.2142353+004	5.2217993+004
3661.0	5.2213400+004	5.2332014+004
3661.5	5.2277850+004	5.2439008+004
3662.0	5.2340021+004	5.2542058+004
3662.5	5.2400697+004	5.2643309+004
3663.0	5.2460890+004	5.2744870+004
3663.5	5.2521866+004	5.2848639+004
3664.0	5.2584253+004	5.2955393+004
3664.5	5.2649978+004	5.3068561+004
3665.0	5.2720804+004	5.3189669+004
3665.5	5.2799787+004	5.3322747+004
3666.0	5.2890306+004	5.3472683+004
3666.5	5.2995038+004	5.3646153+004
3667.0	5.3121767+004	5.3853686+004
3667.5	5.3292037+004	5.4114453+004
3668.0	5.3556149+004	5.4460735+004
3668.5	5.4025441+004	5.4927375+004
3669.0	5.4724585+004	5.5508114+004
3669.5	5.5372582+004	5.6155689+004
3670.0	5.6043071+004	5.6894234+004
3670.5	5.7068065+004	5.7803601+004
3671.0	5.8500397+004	5.8846476+004
3671.5	5.9554186+004	5.9776744+004
3672.0	6.0131476+004	6.0482255+004
3672.5	6.0496242+004	6.1029317+004
3673.0	6.0790705+004	6.1503506+004
3673.5	6.1095493+004	6.1980937+004
3674.0	6.1502851+004	6.2538097+004
3674.5	6.2154269+004	6.3249931+004
3675.0	6.3208384+004	6.4182962+004
3675.5	6.4552245+004	6.5301653+004
3676.0	6.6051948+004	6.6506693+004
3676.5	6.7453999+004	6.7633047+004
3677.0	6.8282474+004	6.8511914+004
3677.5	6.8787326+004	6.9153433+004
3678.0	6.9137368+004	6.9642013+004
3678.5	6.9402448+004	7.0038817+004
3679.0	6.9676633+004	7.0400924+004
3679.5	7.0035603+004	7.0755861+004
3680.0	7.0359635+004	7.1082405+004
3680.5	7.0568323+004	7.1354078+004
3681.0	7.0716040+004	7.1578013+004
3681.5	7.0832991+004	7.1770720+004
3682.0	7.0933996+004	7.1945464+004
3682.5	7.1027575+004	7.2109071+004
3683.0	7.1119002+004	7.2269296+004
3683.5	7.1211891+004	7.2431570+004
3684.0	7.1315133+004	7.2602140+004
3684.5	7.1437295+004	7.2787001+004
3685.0	7.1572121+004	7.2988919+004
3685.5	7.1708674+004	7.3210804+004
3686.0	7.1863471+004	7.3467904+004
3686.5	7.2064325+004	7.3786559+004
3687.0	7.2358735+004	7.4211516+004
3687.5	7.2843093+004	7.4799360+004
3688.0	7.3744140+004	7.5618529+004
3688.5	7.5196634+004	7.6632632+004
3689.0	7.6464984+004	7.7610874+004
3689.5	7.7198587+004	7.8381260+004
3690.0	7.7603114+004	7.8989278+004
3690.5	7.8156043+004	7.9534489+004
3691.0	7.8763412+004	8.0083218+004
3691.5	7.9454421+004	8.0617471+004
3692.0	7.9909503+004	8.1056774+004
3692.5	8.0162700+004	8.1384230+004
3693.0	8.0330354+004	8.1631488+004
3693.5	8.0464656+004	8.1829886+004
3694.0	8.0577450+004	8.1997960+004
3694.5	8.0672930+004	8.2145244+004
3695.0	8.0756619+004	8.2275353+004
3695.5	8.0832802+004	8.2396285+004
3696.0	8.0911779+004	8.2512984+004
3696.5	8.1001739+004	8.2629131+004
3697.0	8.1084850+004	8.2761210+004

Sam. No.	33	34
p(atm)	5.26 × 10^{-3}	5.26 × 10^{-3}
P_e(atm)	5.02 × 10^{0}	1.002 × 10^{1}
u(gm/cm²)	8.0 × 10^{-4}	8.0 × 10^{-4}
ν (cm^{-1})	ν'-3560 cm^{-1}	ν'-3560 cm^{-1}
3697.5	8.1151780+004	8.2846551+004
3698.0	8.1212715+004	8.2948032+004
3698.5	8.1271819+004	8.3048734+004
3699.0	8.1336782+004	8.3154574+004
3699.5	8.1413181+004	8.3273004+004
3700.0	8.1496599+004	8.3404316+004
3700.5	8.1602979+004	8.3559686+004
3701.0	8.1775500+004	8.3764335+004
3701.5	8.2113569+004	8.4044405+004
3702.0	8.2588412+004	8.4368077+004
3702.5	8.2940391+004	8.4659341+004
3703.0	8.3136733+004	8.4889459+004
3703.5	8.3262499+004	8.5071656+004
3704.0	8.3357143+004	8.5223506+004
3704.5	8.3439892+004	8.5361079+004
3705.0	8.3522832+004	8.5494871+004
3705.5	8.3614720+004	8.5631658+004
3706.0	8.3711098+004	8.5773278+004
3706.5	8.3836910+004	8.5923189+004
3707.0	8.3915299+004	8.6086829+004
3707.5	8.4036281+004	8.6273340+004
3708.0	8.4195590+004	8.6499507+004
3708.5	8.4442010+004	8.6791811+004
3709.0	8.4862385+004	8.7169109+004
3709.5	8.5473996+004	8.7616849+004
3710.0	8.6008513+004	8.8079002+004
3710.5	8.6402481+004	8.8527939+004
3711.0	8.6810907+004	8.9000414+004
3711.5	8.7357209+004	8.9555092+004
3712.0	8.8220906+004	9.0233106+004
3712.5	8.9374100+004	9.1000162+004
3713.0	9.0221203+004	9.1705011+004
3713.5	9.0676747+004	9.2238689+004
3714.0	9.0938423+004	9.2623516+004
3714.5	9.1154283+004	9.2937955+004
3715.0	9.1419674+004	9.3241309+004
3715.5	9.1599113+004	9.3489600+004
3716.0	9.1708389+004	9.3672009+004
3716.5	9.1803400+004	9.3825540+004
3717.0	9.1891435+004	9.3967716+004
3717.5	9.1978297+004	9.4106899+004
3718.0	9.2079777+004	9.4254813+004
3718.5	9.2227444+004	9.4424573+004
3719.0	9.2451400+004	9.4620904+004
3719.5	9.2660538+004	9.4823121+004
3720.0	9.2806696+004	9.5011391+004
3720.5	9.2928039+004	9.5190013+004
3721.0	9.3057806+004	9.5374946+004
3721.5	9.3247279+004	9.5594563+004
3722.0	9.3572201+004	9.5866887+004
3722.5	9.3973638+004	9.6175155+004
3723.0	9.4251909+004	9.6475244+004
3723.5	9.4502942+004	9.6736209+004
3724.0	9.4664140+004	9.6967944+004
3724.5	9.4846795+004	9.7210478+004
3725.0	9.5134559+004	9.7502547+004
3725.5	9.5428859+004	9.7822534+004
3726.0	9.5689298+004	9.8153714+004
3726.5	9.6122837+004	9.8572890+004
3727.0	9.6702524+004	9.9065084+004
3727.5	9.7018912+004	9.9446583+004
3728.0	9.7216048+004	9.9720721+004
3728.5	9.7360531+004	9.9945637+004
3729.0	9.7484410+004	1.0015259+005
3729.5	9.7613286+004	1.0036423+005
3730.0	9.7769179+004	1.0060208+005
3730.5	9.7970458+004	1.0088679+005
3731.0	9.8249602+004	1.0124927+005
3731.5	9.8716157+004	1.0173758+005
3732.0	9.9563937+004	1.0238306+005
3732.5	1.0056886+005	1.0310998+005
3733.0	1.0123778+005	1.0377504+005
3733.5	1.0168849+005	1.0435911+005
3734.0	1.0214064+005	1.0493089+005
3734.5	1.0278804+005	1.0561834+005
3735.0	1.0371327+005	1.0644412+005
3735.5	1.0466152+005	1.0733176+005
3736.0	1.0547347+005	1.0822398+005
3736.5	1.0644406+005	1.0920822+005
3737.0	1.0766297+005	1.1025412+005
3737.5	1.0838801+005	1.1107232+005
3738.0	1.0883766+005	1.1166894+005
3738.5	1.0925239+005	1.1215975+005
3739.0	1.0958767+005	1.1258637+005
3739.5	1.0983993+005	1.1296969+005
3740.0	1.1007472+005	1.1334064+005
3740.5	1.1035316+005	1.1375666+005
3741.0	1.1072706+005	1.1418448+005
3741.5	1.1113711+005	1.1467204+005
3742.0	1.1148637+005	1.1518444+005
3742.5	1.1185069+005	1.1576545+005
3743.0	1.1235214+005	1.1650686+005
3743.5	1.1319839+005	1.1754018+005
3744.0	1.1460180+005	1.1898530+005
3744.5	1.1669085+005	1.2079462+005
3745.0	1.1866502+005	1.2262280+005
3745.5	1.2001453+005	1.2409675+005
3746.0	1.2080491+005	1.2517543+005
3746.5	1.2135394+005	1.2600805+005
3747.0	1.2182678+005	1.2673388+005
3747.5	1.2232930+005	1.2744669+005
3748.0	1.2288316+005	1.2821438+005
3748.5	1.2361206+005	1.2912440+005
3749.0	1.2479486+005	1.3026063+005
3749.5	1.2646606+005	1.3158950+005

Table 5-10 $\frac{1}{u}\int_{\nu'}^{\nu} -\ln T(\nu)\,d\nu$ (cont'd)

Sam. No.	33	34
p(atm)	5.26×10^{-3}	5.26×10^{-3}
P_e(atm)	5.02×10^{0}	1.002×10^{1}
u(gm/cm²)	8.0×10^{-5}	8.0×10^{-4}
ν (cm^{-1})	ν'=3560 cm^{-1}	ν'=3560 cm^{-1}
3750.0	1.2793691+005	1.3287596+005
3750.5	1.2890292+005	1.3400249+005
3751.0	1.2972754+005	1.3505809+005
3751.5	1.3072584+005	1.3619550+005
3752.0	1.3222195+005	1.3751805+005
3752.5	1.3395157+005	1.3889631+005
3753.0	1.3509602+005	1.4003[illegible]7+005
3753.5	1.3575061+005	1.4[illegible]86592+005
3754.0	1.3610353+005	1.4167677+005
3754.5	1.3648[illegible]+005	1.4194510+005
3755.0	1.3672405+005	1.4233261+005
3755.5	1.3694306+005	1.4268125+005
3756.0	1.3719089+005	1.4302532+005
3756.5	1.3753796+005	1.4338798+005
3757.0	1.3792560+005	1.4375213+005
3757.5	1.3819384+005	1.4406031+005
3758.0	1.3839849+005	1.4437430+005
3758.5	1.3861546+005	1.4467725+005
3759.0	1.3892493+005	1.4501012+005
3759.5	1.3934546+005	1.4538832+005
3760.0	1.3986762+005	1.4578391+005
3760.5	1.4024964+005	1.4613624+005
3761.0	1.4046945+005	1.4641694+005
3761.5	1.4061540+005	1.4664093+005
3762.0	1.4073239+005	1.4683299+005
3762.5	1.4084137+005	1.4700688+005
3763.0	1.4094291+005	1.4717161+005
3763.5	1.4104252+005	1.4733513+005
3764.0	1.4115137+005	1.4750653+005
3764.5	1.4128199+005	1.4769889+005
3765.0	1.4146885+005	1.4792965+005
3765.5	1.4178362+005	1.4821349+005
3766.0	1.4221792+005	1.4853227+005
3766.5	1.4253592+005	1.4882650+005
3767.0	1.4272123+005	1.4906908+005
3767.5	1.4285538+005	1.4927820+005
3768.0	1.4298275+005	1.4948132+005
3768.5	1.4313751+005	1.4970656+005
3769.0	1.4336902+005	1.4998496+005
3769.5	1.4379109+005	1.5034350+005
3770.0	1.4441788+005	1.5076082+005
3770.5	1.4489141+005	1.5114187+005
3771.0	1.4514853+005	1.5143572+005
3771.5	1.4530971+005	1.5165666+005
3772.0	1.4542239+005	1.5182770+005
3772.5	1.4550327+005	1.5196525+005
3773.0	1.4556750+005	1.5208147+005
3773.5	1.4562413+005	1.5218496+005
3774.0	1.4567643+005	1.5228072+005
3774.5	1.4572562+005	1.5237131+005
3775.0	1.4577283+005	1.5245881+005
3775.5	1.4581996+005	1.5254647+005
3776.0	1.4586820+005	1.5263605+005
3776.5	1.4592048+005	1.5273048+005
3777.0	1.4598119+005	1.5283474+005
3777.5	1.4605770+005	1.5295512+005
3778.0	1.4616237+005	1.5309797+005
3778.5	1.4630651+005	1.5327368+005
3779.0	1.4653809+005	1.5349647+005
3779.5	1.4691462+005	1.5376354+005
3780.0	1.4728152+005	1.5402865+005
3780.5	1.4749550+005	1.5424533+005
3781.0	1.4761634+005	1.5441113+005
3781.5	1.4770203+005	1.5454536+005
3782.0	1.4777585+005	1.5456175+005
3782.5	1.4784031+005	1.5476734+005
3783.0	1.4790006+005	1.5486947+005
3783.5	1.4796576+005	1.5497479+005
3784.0	1.4805542+005	1.5509249+005
3784.5	1.4819282+005	1.5522[illegible]3+005
3785.0	1.4834938+005	1.5536822+005
3785.5	1.4847271+005	1.5549968+005
3786.0	1.4856225+005	1.5561524+005
3786.5	1.4863288+005	1.5571697+005
3787.0	1.4869147+005	1.5580840+005
3787.5	1.4874116+005	1.5589165+005
3788.0	1.4878406+005	1.5596939+005
3788.5	1.4882463+005	1.5604482+005
3789.0	1.4886721+005	1.5611978+005
3789.5	1.4891195+005	1.5619511+005
3790.0	1.4895631+005	1.5627004+005
3790.5	1.4899393+005	1.5634505+005
3791.0	1.4903370+005	1.5642038+005
3791.5	1.4907494+005	1.5649810+005
3792.0	1.4911879+005	1.5657963+005
3792.5	1.4916608+005	1.5666678+005
3793.0	1.4921786+005	1.5675997+005
3793.5	1.4927541+005	1.5686283+005
3794.0	1.4934227+005	1.5698017+005
3794.5	1.4942608+005	1.5711851+005
3795.0	1.4953465+005	1.5728941+005
3795.5	1.4970526+005	1.5750836+005
3796.0	1.5000331+005	1.5779285+005
3796.5	1.5046054+005	1.5813409+005
3797.0	1.5088803+005	1.5848486+005
3797.5	1.5110228+005	1.5880702+005
3798.0	1.5142182+005	1.5910341+005
3798.5	1.5162697+005	1.5938757+005
3799.0	1.5181965+005	1.5968017+005
3799.5	1.5204177+005	1.6001520+005
3800.0	1.5234567+005	1.6043798+005
3800.5	1.5284321+005	1.6101674+005
3801.0	1.5372461+005	1.6181735+005
3801.5	1.5514167+005	1.6283708+005
3802.0	1.5648732+005	1.6387985+005

Sam. No.	33	34
p(atm)	5.26×10^{-3}	5.26×10^{-3}
P_e(atm)	5.02×10^{0}	1.002×10^{1}
u(gm/cm²)	8.0×10^{-5}	8.0×10^{-4}
ν (cm^{-1})	ν'=3560 cm^{-1}	ν'=3560 cm^{-1}
3802.5	1.5735574+005	1.6675777+005
3803.0	1.5746024+005	1.6745671+005
3803.5	1.5848623+005	1.6801771+005
3804.0	1.5873410+005	1.6847298+005
3804.5	1.5895569+005	1.6886492+005
3805.0	1.5916439+005	1.6725097+005
3805.5	1.5944467+005	1.6766179+005
3806.0	1.5950641+005	1.6814751+005
3806.5	1.6038288+005	1.6875925+005
3807.0	1.6135756+005	1.6950235+005
3807.5	1.6244624+005	1.7026222+005
3808.0	1.6310456+005	1.7087664+005
3808.5	1.6345480+005	1.7132121+005
3809.0	1.6366722+005	1.7166513+005
3809.5	1.6381796+005	1.7184956+005
3810.0	1.6393790+005	1.7211068+005
3810.5	1.6404180+005	1.7225775+005
3811.0	1.6413684+005	1.7247216+005
3811.5	1.6422820+005	1.7264162+005
3812.0	1.6432063+005	1.7281373+005
3812.5	1.6441842+005	1.7299340+005
3813.0	1.6452793+005	1.7319087+005
3813.5	1.6465480+005	1.7341765+005
3814.0	1.6481742+005	1.7369246+005
3814.5	1.6504189+005	1.7404811+005
3815.0	1.6539756+005	1.7453965+005
3815.5	1.6585711+005	1.7524957+005
3816.0	1.6728614+005	1.7622279+005
3816.5	1.6875167+005	1.7729300+005
3817.0	1.6969626+005	1.7818813+005
3817.5	1.7021905+005	1.7885502+005
3818.0	1.7056082+005	1.7936902+005
3818.5	1.7084588+005	1.7980953+005
3819.0	1.7112776+005	1.8023039+005
3819.5	1.7144070+005	1.8067761+005
3820.0	1.7187147+005	1.8120024+005
3820.5	1.7253208+005	1.8184653+005
3821.0	1.7368434+005	1.8263020+005
3821.5	1.7454719+005	1.8348954+005
3822.0	1.7562572+005	1.8432897+005
3822.5	1.7635394+005	1.8501657+005
3823.0	1.7674860+005	1.8551531+005
3823.5	1.7700935+005	1.8588879+005
3824.0	1.7720924+005	1.8618845+005
3824.5	1.7736200+005	1.8644959+005
3825.0	1.7753818+005	1.8669271+005
3825.5	1.7770062+005	1.8693556+005
3826.0	1.7789440+005	1.8719392+005
3826.5	1.7816745+005	1.8748257+005
3827.0	1.7852773+005	1.8779578+005
3827.5	1.7882098+005	1.8809344+005
3828.0	1.7902108+005	1.8835361+005
3828.5	1.7916132+005	1.8858483+005
3829.0	1.7931616+005	1.8879918+005
3829.5	1.7944032+005	1.8901078+005
3830.0	1.7957198+005	1.8923655+005
3830.5	1.7973812+005	1.8949807+005
3831.0	1.7998962+005	1.8982394+005
3831.5	1.8043872+005	1.9023375+005
3832.0	1.8103142+005	1.9068611+005
3832.5	1.8145448+005	1.9109483+005
3833.0	1.8171561+005	1.9144423+005
3833.5	1.8192765+005	1.9177448+005
3834.0	1.8216285+005	1.9213315+005
3834.5	1.8252519+005	1.9257356+005
3835.0	1.8315229+005	1.9312186+005
3835.5	1.8381068+005	1.9371109+005
3836.0	1.8426218+005	1.9427365+005
3836.5	1.8468021+005	1.9486684+005
3837.0	1.8527495+005	1.9560424+005
3837.5	1.8633670+005	1.9659036+005
3838.0	1.8792400+005	1.9778180+005
3838.5	1.8919064+005	1.9888946+005
3839.0	1.8994169+005	1.9976743+005
3839.5	1.9048178+005	2.0047648+005
3840.0	1.9101471+005	2.0110997+005
3840.5	1.9155160+005	2.0171308+005
3841.0	1.9214937+005	2.0230129+005
3841.5	1.9266655+005	2.0283733+005
3842.0	1.9298260+005	2.0327896+005
3842.5	1.9322187+005	2.0365969+005
3843.0	1.9348991+005	2.0403495+005
3843.5	1.9389154+005	2.0444048+005
3844.0	1.9436529+005	2.0485486+005
3844.5	1.9468654+005	2.0521243+005
3845.0	1.9488770+005	2.0549967+005
3845.5	1.9503224+005	2.0573971+005
3846.0	1.9515144+005	2.0595198+005
3846.5	1.9526272+005	2.0615062+005
3847.0	1.9536986+005	2.0634595+005
3847.5	1.9547657+005	2.0654462+005
3848.0	1.9558985+005	2.0675404+005
3848.5	1.9572052+005	2.0698644+005
3849.0	1.9588679+005	2.0725848+005
3849.5	1.9611607+005	2.0758643+005
3850.0	1.9639323+005	2.0798186+005
3850.5	1.9670519+005	2.0846598+005
3851.0	1.9714663+005	2.0910396+005
3851.5	1.9783233+005	2.1000844+005
3852.0	1.9931141+005	2.1124260+005
3852.5	2.0084647+005	2.1266167+005
3853.0	2.0211129+005	2.1410824+005
3853.5	2.0363509+005	2.1572235+005
3854.0	2.0561923+005	2.1753019+005
3854.5	2.0745687+005	2.1924436+005

Sam. No.	33	34
p(atm)	5.26×10^{-3}	5.26×10^{-3}
P_e(atm)	5.02×10^{0}	1.002×10^{1}
u(gm/cm²)	8.0×10^{-5}	8.0×10^{-4}
ν (cm^{-1})	ν'=3560 cm^{-1}	ν'=3560 cm^{-1}
3855.0	2.0857852+005	2.2050667+005
3855.5	2.0919665+005	2.2137911+005
3856.0	2.0960190+005	2.2231379+005
3856.5	2.0995231+005	2.2252985+005
3857.0	2.1035804+005	2.2299845+005
3857.5	2.1070974+005	2.2349459+005
3858.0	2.1093119+005	2.2373450+005
3858.5	2.1109119+005	2.2400244+005
3859.0	2.1122758+005	2.2423764+005
3859.5	2.1135525+005	2.2445924+005
3860.0	2.1148328+005	2.2468118+005
3860.5	2.1163097+005	2.2492258+005
3861.0	2.1183678+005	2.2521377+005
3861.5	2.1221217+005	2.2558841+005
3862.0	2.1273395+005	2.2602004+005
3862.5	2.1322790+005	2.2641897+005
3863.0	2.1346305+005	2.2676918+005
3863.5	2.1360748+005	2.2713342+005
3864.0	2.1391549+005	2.2750642+005
3864.5	2.1439569+005	2.2800270+005
3865.0	2.1514837+005	2.2861484+005
3865.5	2.1595496+005	2.2923160+005
3866.0	2.1640745+005	2.2971178+005
3866.5	2.1666405+005	2.3007629+005
3867.0	2.1684708+005	2.3036804+005
3867.5	2.1701391+005	2.3065133+005
3868.0	2.1720628+005	2.3094456+005
3868.5	2.1749137+005	2.3136446+005
3869.0	2.1801423+005	2.3192732+005
3869.5	2.1886764+005	2.3269356+005
3870.0	2.2000825+005	2.3362723+005
3870.5	2.2123201+005	2.3458332+005
3871.0	2.2195622+005	2.3534458+005
3871.5	2.2238046+005	2.3588391+005
3872.0	2.2266663+005	2.3628468+005
3872.5	2.2286599+005	2.3660276+005
3873.0	2.2304909+005	2.3689265+005
3873.5	2.2328991+005	2.3720595+005
3874.0	2.2367743+005	2.3757696+005
3874.5	2.2420261+005	2.3798775+005
3875.0	2.2465028+005	2.3836444+005
3875.5	2.2489535+005	2.3865213+005
3876.0	2.2503928+005	2.3886789+005
3876.5	2.2514571+005	2.3904282+005
3877.0	2.2523603+005	2.3919624+005
3877.5	2.2532063+005	2.3934317+005
3878.0	2.2540652+005	2.3949239+005
3878.5	2.2550304+005	2.3965704+005
3879.0	2.2563000+005	2.3985793+005
3879.5	2.2583905+005	2.4012926+005
3880.0	2.2625646+005	2.4050920+005
3880.5	2.2687483+005	2.4096729+005
3881.0	2.2739192+005	2.4139909+005
3881.5	2.2772746+005	2.4174477+005
3882.0	2.2792128+005	2.4201310+005
3882.5	2.2806954+005	2.4223542+005
3883.0	2.2824164+005	2.4245994+005
3883.5	2.2844738+005	2.4269840+005
3884.0	2.2863498+005	2.4295332+005
3884.5	2.2884719+005	2.4326648+005
3885.0	2.2922655+005	2.4373473+005
3885.5	2.3007297+005	2.4446146+005
3886.0	2.3114387+005	2.4529512+005
3886.5	2.3174049+005	2.4591550+005
3887.0	2.3201273+005	2.4630094+005
3887.5	2.3217071+005	2.4656240+005
3888.0	2.3228423+005	2.4675839+005
3888.5	2.3237965+005	2.4692550+005
3889.0	2.3247377+005	2.4708706+005
3889.5	2.3258304+005	2.4726529+005
3890.0	2.3273366+005	2.4748663+005
3890.5	2.3299967+005	2.4779419+005
3891.0	2.3354107+005	2.4823360+005
3891.5	2.3429856+005	2.4875341+005
3892.0	2.3481053+005	2.4920156+005
3892.5	2.3508868+005	2.4953021+005
3893.0	2.3526399+005	2.4977074+005
3893.5	2.3539553+005	2.4996320+005
3894.0	2.3552671+005	2.5013651+005
3894.5	2.3565168+005	2.5029377+005
3895.0	2.3573706+005	2.5042630+005
3895.5	2.3580392+005	2.5054303+005
3896.0	2.3586966+005	2.5065559+005
3896.5	2.3593278+005	2.5077467+005
3897.0	2.3601291+005	2.5091008+005
3897.5	2.3612373+005	2.5107795+005
3898.0	2.3629004+005	2.5129693+005
3898.5	2.3654266+005	2.5159795+005
3899.0	2.3700010+005	2.5202730+005
3899.5	2.3771405+005	2.5257032+005
3900.0	2.3824656+005	2.5307716+005
3900.5	2.3854213+005	2.5348843+005
3901.0	2.3881122+005	2.5389606+005
3901.5	2.3927503+005	2.5444136+005
3902.0	2.4011997+005	2.5517314+005
3902.5	2.4078076+005	2.5583002+005
3903.0	2.4115061+005	2.5631956+005
3903.5	2.4153059+005	2.5678338+005
3904.0	2.4216233+005	2.5731046+005
3904.5	2.4288593+005	2.5783426+005
3905.0	2.4330336+005	2.5823454+005
3905.5	2.4356984+005	2.5853194+005
3906.0	2.4382863+005	2.5877973+005
3906.5	2.4402222+005	2.5897763+005
3907.0	2.4412231+005	2.5911704+005

Sam. No.	33	34
p(atm)	5.26×10^{-3}	5.26×10^{-3}
P_e(atm)	5.02×10^{0}	1.002×10^{1}
u(gm/cm²)	8.0×10^{-5}	8.0×10^{-4}
ν (cm^{-1})	ν'=3560 cm^{-1}	ν'=3560 cm^{-1}
3907.5	2.4417926+005	2.5921467+005
3908.0	2.4421939+005	2.5928838+005
3908.5	2.4424852+005	2.5934784+005
3909.0	2.4427326+005	2.5939764+005
3909.5	2.4429699+005	2.5944076+005
3910.0	2.4431348+005	2.5948027+005
3910.5	2.4433086+005	2.5951598+005
3911.0	2.4416661+005	2.5954991+005
3911.5	2.4436111+005	2.5958235+005
3912.0	2.4437630+005	2.5961472+005
3912.5	2.4439293+005	2.5964855+005
3913.0	2.4441087+005	2.5968269+005
3913.5	2.4442859+005	2.5971802+005
3914.0	2.4444848+005	2.5975613+005
3914.5	2.4447187+005	2.5979935+005
3915.0	2.4450145+005	2.5985267+005
3915.5	2.4454778+005	2.5992664+005
3916.0	2.4464907+005	2.6004287+005
3916.5	2.4483749+005	2.6022836+005
3917.0	2.4516437+005	2.6052585+005
3917.5	2.4563979+005	2.6091757+005
3918.0	2.4586724+005	2.6119178+005
3918.5	2.4595663+005	2.6134187+005
3919.0	2.4602389+005	2.6145505+005
3919.5	2.4611957+005	2.6157738+005
3920.0	2.4632842+005	2.6174489+005
3920.5	2.4657559+005	2.6193445+005
3921.0	2.4669953+005	2.6207955+005
3921.5	2.4675747+005	2.6217590+005
3922.0	2.4679596+005	2.6224768+005
3922.5	2.4683114+005	2.6231161+005
3923.0	2.4687499+005	2.6237997+005
3923.5	2.4694655+005	2.6246481+005
3924.0	2.4705448+005	2.6257372+005
3924.5	2.4718823+005	2.6270526+005
3925.0	2.4736462+005	2.6285216+005
3925.5	2.4755915+005	2.6299602+005
3926.0	2.4766877+005	2.6310462+005
3926.5	2.4771745+005	2.6317643+005
3927.0	2.4774522+005	2.6322618+005
3927.5	2.4776827+005	2.6326851+005
3928.0	2.4779511+005	2.6331091+005
3928.5	2.4783049+005	2.6335791+005
3929.0	2.4787895+005	2.6341170+005
3929.5	2.4795168+005	2.6347472+005
3930.0	2.4802809+005	2.6354520+005
3930.5	2.4810606+005	2.6362213+005
3931.0	2.4818827+005	2.6370669+005
3931.5	2.4826715+005	2.6380666+005
3932.0	2.4842599+005	2.6396591+005
3932.5	2.4874515+005	2.6422772+005
3933.0	2.4897377+005	2.6445607+005
3933.5	2.4904691+005	2.6456471+005
3934.0	2.4910726+005	2.6463607+005
3934.5	2.4916139+005	2.6469518+005
3935.0	2.4918936+005	2.6473686+005
3935.5	2.4920660+005	2.6476658+005
3936.0	2.4921886+005	2.6478985+005
3936.5	2.4922803+005	2.6481011+005
3937.0	2.4923624+005	2.6482923+005
3937.5	2.4924629+005	2.6484889+005
3938.0	2.4926330+005	2.6487206+005
3938.5	2.4928789+005	2.6489985+005
3939.0	2.4930950+005	2.6492817+005
3939.5	2.4932644+005	2.6495403+005
3940.0	2.4934051+005	2.6497992+005
3940.5	2.4935669+005	2.6500901+005
3941.0	2.4937865+005	2.6504545+005
3941.5	2.4961135+005	2.6509546+005
3942.0	2.4967914+005	2.6517249+005
3942.5	2.4963461+005	2.6529013+005
3943.0	2.4983663+005	2.6542906+005
3943.5	2.4994899+005	2.6553934+005
3944.0	2.5000995+005	2.6561615+005
3944.5	2.5005960+005	2.6567369+005
3945.0	2.5008853+005	2.6571489+005
3945.5	2.5010533+005	2.6574639+005
3946.0	2.5012004+005	2.6577633+005
3946.5	2.5014223+005	2.6581535+005
3947.0	2.5021173+005	2.6589331+005
3947.5	2.5035490+005	2.6602522+005
3948.0	2.5046634+005	2.6613659+005
3948.5	2.5054225+005	2.6621888+005
3949.0	2.5059237+005	2.6628232+005
3949.5	[illegible]5066381+005	2.6634892+005
3950.0	2.5076725+005	2.6642216+005
3950.5	2.5085180+005	2.6648832+005
3951.0	2.5[illegible]	2.6653746+005
3951.5	2.509[illegible]005	2.6657307+005
3952.0	2.5093[illegible]	2.6660226+005
3952.5	2.5095434+005	2.6662987+005
3953.0	2.5097963+005	2.6665858+005
3953.5	2.5100543+005	2.6668657+005
3954.0	2.5102063+005	2.6671078+005
3954.5	2.5102963+005	2.6673083+005
3955.0	2.5103806+005	2.6674946+005
3955.5	2.5104756+005	2.6676782+005
3956.0	2.5105705+005	2.6678683+005
3956.5	2.5107068+005	2.6680846+005
3957.0	2.5109356+005	2.6683317+005
3957.5	2.5111307+005	2.6685791+005
3958.0	2.5112772+005	2.6688080+005
3958.5	2.5114160+005	2.6690161+005
3959.0	2.5115085+005	2.6692010+005
3959.5	2.5116210+005	2.6693900+005
3960.0	2.5117398+005	2.6695797+005

Table 5-11

Sam. No.		35	36
p(atm)		0.42 × 10^{-8}	0.42 × 10^{-3}
P_e(atm)		5.03 × 10^{0}	1.003 × 10^{1}
w(gm/cm^2)		2.05 × 10^{-8}	2.05 × 10^{-8}
ν (cm^{-1})	λ (micron)	T × 100	T × 100
3935.0	2.54130	37.0	10.C
3935.2	2.54117	41.4	23.0
3935.4	2.54104	45.0	26.7
3935.6	2.54091	46.9	29.7
3935.8	2.54078	52.3	32.?
3936.0	2.54065	55.6	35.0
3936.2	2.54052	57.5	37.3
3936.4	2.54039	59.5	38.9
3936.6	2.54026	59.0	40.2
3936.8	2.54013	60.5	41.0
3937.0	2.54001	59.7	41.2
3937.2	2.53988	57.8	40.8
3937.4	2.53975	54.9	39.5
3937.6	2.53962	49.7	38.0
3937.8	2.53949	43.0	35.6
3938.0	2.53936	36.0	32.9
3938.2	2.53923	36.6	29.0
3938.4	2.53910	30.3	27.0
3938.6	2.53897	32.8	26.5
3938.8	2.53884	35.7	26.7
3939.0	2.53872	37.8	27.8
3939.2	2.53859	40.5	28.9
3939.4	2.53846	43.8	29.4
3939.6	2.53833	47.1	30.2
3939.8	2.53820	48.3	30.7
3940.0	2.53807	47.0	30.4
3940.2	2.53794	43.8	29.1
3940.4	2.53781	40.2	27.3
3940.6	2.53768	36.4	24.9
3940.8	2.53756	33.6	22.1
3941.0	2.53743	30.0	19.5
3941.2	2.53730	26.4	16.7
3941.4	2.53717	20.8	13.1
3941.6	2.53704	14.7	9.7
3941.8	2.53691	9.7	7.1
3942.0	2.53678	5.6	4.8
3942.2	2.53665	3.2	3.2
3942.4	2.53653	2.4	2.3
3942.6	2.53640	1.8	1.0
3942.8	2.53627	2.4	1.0
3943.0	2.53614	2.7	1.1
3943.2	2.53601	4.5	1.2
3943.4	2.53588	5.0	2.1
3943.6	2.53575	8.2	2.9
3943.8	2.53563	10.0	4.4
3944.0	2.53550	10.7	5.7
3944.2	2.53537	12.1	7.3
3944.4	2.53524	16.7	9.0
3944.6	2.53511	21.5	11.6
3944.8	2.53498	32.4	14.7
3945.0	2.53485	39.3	18.6
3945.2	2.53473	44.2	22.1
3945.4	2.53460	47.2	24.9
3945.6	2.53447	48.6	26.7
3945.8	2.53434	46.5	27.5
3946.0	2.53421	46.9	27.1
3946.2	2.53408	42.4	25.6
3946.4	2.53395	35.7	22.6
3946.6	2.53383	26.2	18.1
3946.8	2.53370	16.1	12.0
3947.0	2.53357	8.0	7.7
3947.2	2.53344	4.2	3.8
3947.4	2.53331	3.1	1.8
3947.6	2.53318	3.0	1.0
3947.8	2.53306	3.4	1.6
3948.0	2.53293	3.8	1.9
3948.2	2.53280	6.6	2.6
3948.4	2.53267	10.7	3.5
3948.6	2.53254	14.0	5.1
3948.8	2.53241	14.8	6.6
3949.0	2.53229	12.7	7.8
3949.2	2.53216	8.9	8.0
3949.4	2.53203	5.9	7.1
3949.6	2.53190	3.8	6.1
3949.8	2.53177	3.1	5.5
3950.0	2.53165	3.6	5.5
3950.2	2.53152	4.9	5.8
3950.4	2.53139	7.5	7.5
3950.6	2.53126	12.6	8.8
3950.8	2.53113	19.3	11.7
3951.0	2.53100	26.4	15.2
3951.2	2.53088	34.0	19.5
3951.4	2.53075	39.8	23.6
3951.6	2.53062	43.7	27.1
3951.8	2.53049	44.8	30.0
3952.0	2.53035	44.7	32.6
3952.2	2.53024	41.7	33.4
3952.4	2.53011	37.4	33.4
3952.6	2.52998	35.2	31.8
3952.8	2.52985	28.9	31.6
3953.0	2.52972	26.7	33.4
3953.2	2.52960	28.4	33.?
3953.4	2.52947	34.6	34.2
3953.6	2.52934	42.6	36.3
3953.8	2.52921	49.1	39.2
3954.0	2.52908	55.4	42.0
3954.2	2.52896	59.7	44.9
3954.4	2.52883	61.6	46.8
3954.6	2.52870	61.0	48.7
3954.8	2.52857	59.1	49.6
3955.0	2.52845	56.4	50.0
3955.2	2.52832	55.2	49.5
3955.4	2.52819	56.2	49.1
3955.6	2.52806	57.7	49.1
3955.8	2.52793	57.3	48.4
3956.0	2.52781	54.3	47.6
3956.2	2.52768	48.0	45.8
3956.4	2.52755	39.5	42.8
3956.6	2.52742	32.3	39.7
3956.8	2.52729	32.1	38.1
3957.0	2.52717	36.0	37.2
3957.2	2.52704	41.6	37.8
3957.4	2.52691	45.9	39.2
3957.6	2.52678	47.2	41.0
3957.8	2.52666	45.8	42.1
3958.0	2.52653	44.9	43.2
3958.2	2.52640	47.8	44.5
3958.4	2.52627	53.4	46.2
3958.6	2.52615	58.8	48.2
3958.8	2.52602	59.0	50.1

Sam. No.		35	36
p(atm)		0.42 × 10^{-8}	0.42 × 10^{-3}
P_e(atm)		5.03 × 10^{0}	1.003 × 10^{1}
w(gm/cm^2)		2.05 × 10^{-8}	2.05 × 10^{-8}
ν (cm^{-1})	λ (micron)	T × 100	T × 100
3959.0	2.52589	57.6	50.8
3959.2	2.52576	52.6	49.9
3959.4	2.52564	48.9	48.7
3959.6	2.52551	50.7	47.9
3959.8	2.52538	57.0	48.2
3960.0	2.52525	62.0	50.2
3960.2	2.52512	64.4	51.6
3960.4	2.52500	64.3	52.9
3960.6	2.52487	59.0	51.0
3960.8	2.52474	50.9	47.6
3961.0	2.52461	36.7	40.4
3961.2	2.52449	25.1	31.8
3961.4	2.52436	15.5	22.4
3961.6	2.52423	10.1	14.5
3961.8	2.52411	14.1	9.7
3962.0	2.52398	25.3	10.5
3962.2	2.52385	41.1	17.7
3962.4	2.52372	55.7	28.8
3962.6	2.52360	64.1	40.2
3962.8	2.52347	68.9	49.0
3963.0	2.52334	70.3	55.2
3963.2	2.52321	69.4	58.9
3963.4	2.52309	68.4	60.7
3963.6	2.52296	68.3	61.9
3963.8	2.52283	68.9	62.7
3964.0	2.52270	70.3	64.3
3964.2	2.52258	69.9	64.8
3964.4	2.52245	69.1	65.5
3964.6	2.52232	69.7	66.7
3964.8	2.52220	70.7	66.7
3965.0	2.52207	73.8	67.6
3965.2	2.52194	77.5	69.1
3965.4	2.52181	80.0	70.6
3965.6	2.52169	81.4	71.9
3965.8	2.52156	82.4	73.?
3966.0	2.52143	82.9	73.6
3966.2	2.52131	82.7	74.4
3966.4	2.52118	82.9	74.7
3966.6	2.52105	82.7	74.6
3966.8	2.52092	81.5	73.6
3967.0	2.52080	80.0	73.2
3967.2	2.52067	78.0	72.1
3967.4	2.52054	76.7	70.9
3967.6	2.52042	75.2	69.4
3967.8	2.52029	72.7	67.1
3968.0	2.52016	69.7	64.6
3968.2	2.52003	65.6	61.7
3968.4	2.51991	55.4	57.4
3968.6	2.51978	43.6	52.1
3968.8	2.51965	34.1	46.3
3969.0	2.51953	30.3	42.5
3969.2	2.51940	34.1	39.6
3969.4	2.51927	43.2	39.7
3969.6	2.51915	53.4	42.7
3969.8	2.51902	61.5	46.8
3970.0	2.51889	66.5	51.1
3970.2	2.51876	69.1	54.7
3970.4	2.51864	69.1	57.0
3970.6	2.51851	69.1	59.3
3970.8	2.51838	68.3	59.0
3971.0	2.51826	64.9	58.7
3971.2	2.51813	62.9	58.2
3971.4	2.51800	56.9	56.2
3971.6	2.51788	50.5	54.0
3971.8	2.51775	43.8	51.4
3972.0	2.51762	40.3	49.5
3972.2	2.51750	39.0	47.7
3972.4	2.51737	40.3	47.1
3972.6	2.51724	42.8	47.0
3972.8	2.51712	45.6	47.5
3973.0	2.51699	49.6	48.0
3973.2	2.51686	50.8	49.1
3973.4	2.51674	50.9	49.9
3973.6	2.51661	49.1	50.3
3973.8	2.51648	46.4	50.2
3974.0	2.51636	45.5	49.6
3974.2	2.51623	48.0	49.4
3974.4	2.51610	50.1	49.9
3974.6	2.51598	46.6	47.2
3974.8	2.51585	43.1	45.4
3975.0	2.51572	41.5	43.6
3975.2	2.51560	43.2	42.0
3975.4	2.51547	44.3	41.5
3975.6	2.51534	40.2	40.2
3975.8	2.51522	32.2	36.7
3976.0	2.51509	21.8	30.3
3976.2	2.51496	14.0	27.0
3976.4	2.51484	21.5	23.6
3976.6	2.51471	41.4	42.4
3976.8	2.51458	71.3	54.1
3977.0	2.51446	77.1	63.4
3977.2	2.51433	82.4	66.1
3977.4	2.51421	83.1	71.9
3977.6	2.51408	83.9	74.9
3977.8	2.51395	86.0	76.2
3978.0	2.51382	84.2	77.1
3978.2	2.51370	84.5	76.0
3978.4	2.51357	83.6	77.9
3978.6	2.51345	83.0	77.9
3978.8	2.51332	81.7	77.2
3979.0	2.51319	80.1	76.9
3979.2	2.51307	77.4	75.7
3979.4	2.51294	74.0	74.0
3979.6	2.51282	71.1	72.1
3979.8	2.51269	70.6	70.7
3980.0	2.51256	72.5	70.7
3980.2	2.51244	74.5	70.3
3980.4	2.51231	74.0	71.0
3980.6	2.51218	72.8	70.7
3980.8	2.51206	72.0	70.2
3981.0	2.51193	71.C	69.8
3981.2	2.51181	71.3	68.6
3981.4	2.51168	71.3	68.3
3981.6	2.51155	64.0	67.8
3981.8	2.51143	62.6	66.5
3982.0	2.51130	58.7	65.2
3982.2	2.51117	57.9	64.2
3982.4	2.51105	60.4	63.6
3982.6	2.51092	62.7	63.2
3982.8	2.51080	66.1	63.4

Sam. No.		35	36
p(atm)		0.42 × 10^{-8}	0.42 × 10^{-3}
P_e(atm)		5.03 × 10^{0}	1.003 × 10^{1}
w(gm/cm^2)		2.05 × 10^{-8}	2.05 × 10^{-8}
ν (cm^{-1})	λ (micron)	T × 100	T × 100
3983.0	2.51067	69.2	68.4
3983.2	2.51054	72.6	69.7
3983.4	2.51042	75.6	71.3
3983.6	2.51029	79.0	73.3
3983.8	2.51017	80.9	73.9
3984.0	2.51004	82.0	76.3
3984.2	2.50991	83.1	77.5
3984.4	2.50979	83.7	78.0
3984.6	2.50966	84.8	78.1
3984.8	2.50954	80.2	77.9
3985.0	2.50941	78.1	77.4
3985.2	2.50928	76.6	76.9
3985.4	2.50916	78.2	76.6
3985.6	2.50903	79.9	76.5
3985.8	2.50891	81.6	76.5
3986.0	2.50878	82.0	78.0
3986.2	2.50865	82.7	78.8
3986.4	2.50853	83.8	79.7
3986.6	2.50840	85.2	80.5
3986.8	2.50828	86.9	81.2
3987.0	2.50815	87.7	81.9
3987.2	2.50803	82.6	82.6
3987.4	2.50790	88.3	82.3
3987.6	2.50777	89.3	83.3
3987.8	2.50765	88.2	83.2
3988.0	2.50752	88.5	82.8
3988.2	2.50740	88.3	82.6
3988.4	2.50727	87.9	82.0
3988.6	2.50715	87.2	81.2
3988.8	2.50702	85.6	79.8
3989.0	2.50689	82.7	78.5
3989.2	2.50677	78.1	75.6
3989.4	2.50664	73.3	71.0
3989.6	2.50652	62.0	64.6
3989.8	2.50639	59.8	59.7
3990.0	2.50627	59.2	57.0
3990.2	2.50614	53.3	55.5
3990.4	2.50601	45.9	52.2
3990.6	2.50589	43.3	49.6
3990.8	2.50576	44.9	51.0
3991.0	2.50564	50.4	53.9
3991.2	2.50551	57.7	57.3
3991.4	2.50539	66.7	60.9
3991.6	2.50526	72.9	64.3
3991.8	2.50514	76.6	67.2
3992.0	2.50501	78.2	69.7
3992.2	2.50488	77.6	70.8
3992.4	2.50476	75.1	71.6
3992.6	2.50463	72.2	70.8
3992.8	2.50451	72.7	69.8
3993.0	2.50438	76.2	69.4
3993.2	2.50426	79.5	71.6
3993.4	2.50413	80.8	72.2
3993.6	2.50401	79.5	73.1
3993.8	2.50388	77.2	72.6
3994.0	2.50376	73.0	71.2
3994.2	2.50363	66.7	69.1
3994.4	2.50350	59.6	66.1
3994.6	2.50338	51.6	63.2
3994.8	2.50325	46.0	60.4
3995.0	2.50313	45.6	58.6
3995.2	2.50300	50.5	58.3
3995.4	2.50288	58.9	59.5
3995.6	2.50275	66.9	61.6
3995.8	2.50263	73.9	66.5
3996.0	2.50250	78.7	69.9
3996.2	2.50238	81.8	73.0
3996.4	2.50225	83.9	75.5
3996.6	2.50213	85.3	77.6
3996.8	2.50200	85.6	79.0
3997.0	2.50188	86.9	80.5
3997.2	2.50175	87.9	81.7
3997.4	2.50163	87.9	82.0
3997.6	2.50150	88.0	83.4
3997.8	2.50138	91.0	84.0
3998.0	2.50125	91.3	85.4
3998.2	2.50113	91.3	85.9
3998.4	2.50100	90.7	86.1
3998.6	2.50088	90.1	86.0
3998.8	2.50075	89.8	86.1
3999.0	2.50063	90.6	86.3
3999.2	2.50050	91.7	86.6
3999.4	2.50038	91.9	86.9
3999.6	2.50025	92.2	87.3
3999.8	2.50013	92.0	87.5
4000.0	2.50000	91.5	87.6
4000.2	2.49988	91.0	86.3
4000.4	2.49975	90.1	86.8
4000.6	2.49963	90.6	86.8
4000.8	2.49950	89.4	86.6
4001.0	2.49938	89.0	86.7
4001.2	2.49925	89.0	86.8
4001.4	2.49913	89.3	86.0
4001.6	2.49900	90.2	86.7
4001.8	.4988	90.9	87.1
4002.0	2.49875	91.0	87.1
4002.2	2.49863	91.0	87.3
4002.4	2.49850	90.4	87.4
4002.6	2.49838	89.9	87.0
4002.8	2.49825	85.3	81.4
4003.0	2.49813	84.0	80.2
4003.2	2.49800	85.2	80.7
4003.4	2.49788	86.1	81.1
4003.6	2.49775	86.7	81.4
4003.8	2.49763	87.2	82.5
4004.0	2.49750	90.8	84.4
4004.2	2.49738	90.7	85.0
4004.4	2.49725	89.8	85.9
4004.6	2.49713	89.0	85.4
4004.8	2.49700	87.9	84.7
4005.0	2.49688	86.4	85.1
4005.2	2.49675	85.1	84.1
4005.4	2.49663	85.2	83.1
4005.6	2.49650	85.4	82.8
4005.8	2.49638	85.8	82.0
4006.0	2.49626	87.4	82.1
4006.2	2.49613	87.4	83.5
4006.4	2.49601	86.3	83.4
4006.6	2.49588	85.3	80.4
4006.8	2.49576	82.7	79.0

Sam. No.		35	36
p(atm)		0.42 × 10^{-8}	0.42 × 10^{-3}
P_e(atm)		5.03 × 10^{0}	1.003 × 10^{1}
w(gm/cm^2)		2.05 × 10^{-8}	2.05 × 10^{-8}
ν (cm^{-1})	λ (micron)	T × 100	T × 100
4007.0	2.49563	79.4	77.4
4007.2	2.49551	75.6	75.5
4007.4	2.49538	70.9	73.0
4007.6	2.49526	65.7	70.0
4007.8	2.49513	59.7	67.2
4008.0	2.49501	52.6	64.1
4008.2	2.49489	46.2	61.3
4008.4	2.49476	42.4	58.5
4008.6	2.49464	43.9	57.3
4008.8	2.49451	50.8	57.6
4009.0	2.49439	58.9	59.3
4009.2	2.49426	66.7	61.8
4009.4	2.49414	73.1	65.0
4009.6	2.49401	78.1	68.3
4009.8	2.49389	81.3	71.5
4010.0	2.49377	83.3	74.0
4010.2	2.49364	84.0	75.9
4010.4	2.49352	85.0	77.5
4010.6	2.49339	86.0	78.9
4010.8	2.49327	86.1	79.6
4011.0	2.49314	86.5	80.2
4011.2	2.49302	86.3	80.8
4011.4	2.49290	86.1	80.9
4011.6	2.49277	85.5	81.2
4011.8	2.49265	83.9	81.0
4012.0	2.49252	81.6	80.5
4012.2	2.49240	79.2	80.1
4012.4	2.49227	76.9	78.8
4012.6	2.49215	77.5	78.7
4012.8	2.49203	79.7	79.3
4013.0	2.49190	82.5	79.7
4013.2	2.49178	85.2	80.5
4013.4	2.49165	86.6	81.6
4013.6	2.49153	87.8	82.1
4013.8	2.49140	87.9	82.7
4014.0	2.49128	87.9	83.1
4014.2	2.49116	88.2	83.5
4014.4	2.49103	88.1	84.0
4014.6	2.49091	89.0	84.0
4014.8	2.49078	88.5	84.7
4015.0	2.49066	88.7	85.1
4015.2	2.49054	88.0	85.2
4015.4	2.49041	88.8	85.2
4015.6	2.49029	89.5	85.0
4015.8	2.49016	89.8	85.1
4016.0	2.49004	89.7	85.5
4016.2	2.48992	88.4	85.1
4016.4	2.48979	86.2	84.6
4016.6	2.48967	86.3	83.0
4016.8	2.48954	83.6	81.4
4017.0	2.48942	84.6	81.3
4017.2	2.48930	85.6	81.0
4017.4	2.48917	86.9	82.0
4017.6	2.48905	86.7	82.0
4017.8	2.48892	85.7	82.3
4018.0	2.48880	83.0	81.5
4018.2	2.48868	80.6	80.4
4018.4	2.48855	78.1	78.7
4018.6	2.48843	75.5	77.1
4018.8	2.48830	72.0	75.9
4019.0	2.48818	68.0	74.2
4019.2	2.48806	65.3	72.9
4019.4	2.48793	62.5	72.0
4019.6	2.48781	62.7	71.6
4019.8	2.48769	69.2	71.8
4020.0	2.48756	74.4	72.4
4020.2	2.48744	78.6	74.1
4020.4	2.48731	81.6	76.4
4020.6	2.48719	83.5	77.9
4020.8	2.48707	84.7	79.2
4021.0	2.48694	85.4	80.7
4021.2	2.48682	85.6	81.8
4021.4	2.48670	87.1	82.5
4021.6	2.48657	88.0	83.6
4021.8	2.48645	88.5	83.6
4022.0	2.48633	89.8	84.6
4022.2	2.48620	89.5	85.2
4022.4	2.48608	89.6	85.6
4022.6	2.48595	90.4	85.9
4022.8	2.48583	90.7	85.7
4023.0	2.48571	90.5	85.8
4023.2	2.48558	90.1	85.9
4023.4	2.48546	89.5	85.9
4023.6	2.48534	88.7	84.9
4023.8	2.48521	87.3	83.0
4024.0	2.48509	85.5	82.6
4024.2	2.48497	82.9	81.6
4024.4	2.48484	79.6	79.6
4024.6	2.48472	73.9	77.4
4024.8	2.48460	67.4	74.5
4025.0	2.48447	60.2	71.1
4025.2	2.48435	54.4	68.0
4025.4	2.48423	53.4	66.3
4025.6	2.48410	60.0	65.4
4025.8	2.48398	68.1	68.4
4026.0	2.48385	75.3	70.7
4026.2	2.48373	80.2	73.9
4026.4	2.48361	83.5	76.9
4026.6	2.48348	85.5	79.2
4026.8	2.48336	87.4	81.5
4027.0	2.48324	89.1	83.0
4027.2	2.48311	89.8	84.1
4027.4	2.48299	90.6	85.4
4027.6	2.48287	91.2	85.9
4027.8	2.48274	91.1	86.5
4028.0	2.48262	91.3	86.9
4028.2	2.48250	90.9	87.1
4028.4	2.48238	91.2	87.3
4028.6	2.48225	91.4	87.5
4028.8	2.48213	90.5	88.0
4029.0	2.48201	89.0	87.6
4029.2	2.48188	87.5	87.1
4029.4	2.48176	85.1	86.3
4029.6	2.48164	83.7	85.5
4029.8	2.48151	83.7	85.3
4030.0	2.48139	84.7	85.4
4030.2	2.48127	86.2	85.3
4030.4	2.48115	87.3	86.1
4030.6	2.48102	87.5	86.1
4030.8	2.48090	87.6	86.7

Sam. No.		35	36
p(atm)		0.42 × 10^{-8}	0.42 × 10^{-3}
P_e(atm)		5.03 × 10^{0}	1.003 × 10^{1}
w(gm/cm^2)		2.05 × 10^{-8}	2.05 × 10^{-8}
ν (cm^{-1})	λ (micron)	T × 100	T × 100
4031.0	2.48077	86.8	87.1
4031.2	2.48065	85.8	87.0
4031.4	2.48053	85.5	86.9
4031.6	2.48040	86.5	87.4
4031.8	2.48028	87.7	87.8
4032.0	2.48016	89.2	88.1
4032.2	2.48004	90.0	87.9
4032.4	2.47991	90.7	88.8
4032.6	2.47979	90.8	89.1
4032.8	2.47967	90.8	89.6
4033.0	2.47954	91.4	89.8
4033.2	2.47942	91.7	90.0
4033.4	2.47930	92.3	90.4
4033.6	2.47917	92.5	90.4
4033.8	2.47905	92.1	90.4
4034.0	2.47893	91.5	90.9
4034.2	2.47881	91.2	91.1
4034.4	2.47868	91.2	91.0
4034.6	2.47856	91.6	91.3
4034.8	2.47844	92.5	91.6
4035.0	2.47831	93.2	91.5
4035.2	2.47819	93.5	92.0
4035.4	2.47807	93.4	91.9
4035.6	2.47795	94.0	92.7
4035.8	2.47782	93.1	92.7
4036.0	2.47770	93.5	92.5
4036.2	2.47758	93.4	92.6
4036.4	2.47746	93.9	92.9
4036.6	2.47733	93.5	92.9
4036.8	2.47721	94.0	92.8
4037.0	2.47709	93.9	93.1
4037.2	2.47696	94.2	93.4
4037.4	2.47684	94.2	93.1
4037.6	2.47672	94.4	93.4
4037.8	2.47660	94.5	93.2
4038.0	2.47647	94.3	93.4
4038.2	2.47635	94.5	93.3
4038.4	2.47623	94.6	92.9
4038.6	2.47611	93.7	92.9
4038.8	2.47598	92.8	93.1
4039.0	2.47586	93.1	92.5
4039.2	2.47574	93.3	92.6
4039.4	2.47562	93.3	92.4
4039.6	2.47549	93.4	92.1
4039.8	2.47537	93.2	92.2
4040.0	2.47525	92.8	92.2
4040.2	2.47512	93.0	91.9
4040.4	2.47500	92.9	91.3
4040.6	2.47488	93.0	91.3
4040.8	2.47476	93.0	91.2
4041.0	2.47463	92.8	91.2
4041.2	2.47451	92.6	91.3
4041.4	2.47439	93.0	90.8
4041.6	2.47427	92.4	90.8
4041.8	2.47415	91.7	89.8
4042.0	2.47402	91.3	89.1
4042.2	2.47390	90.2	88.2
4042.4	2.47378	89.4	87.2
4042.6	2.47366	87.9	85.9
4042.8	2.47353	86.1	84.5
4043.0	2.47341	83.2	82.5
4043.2	2.47329	79.2	80.6
4043.4	2.47317	74.9	78.0
4043.6	2.47304	70.1	76.3
4043.8	2.47292	67.1	74.0
4044.0	2.47280	63.8	71.2
4044.2	2.47268	60.3	68.7
4044.4	2.47255	55.7	66.2
4044.6	2.47243	50.4	63.8
4044.8	2.47231	46.6	62.0
4045.0	2.47219	48.3	61.3
4045.2	2.47207	53.3	61.4
4045.4	2.47194	62.1	63.8
4045.6	2.47182	69.8	66.9
4045.8	2.47170	76.0	70.6
4046.0	2.47158	80.7	74.4
4046.2	2.47146	84.2	77.9
4046.4	2.47133	86.6	80.0
4046.6	2.47121	88.4	82.7
4046.8	2.47109	89.9	84.7
4047.0	2.47097	90.9	86.2
4047.2	2.47084	91.4	87.6
4047.4	2.47072	91.7	88.4
4047.6	2.47060	92.1	89.0
4047.8	2.47048	93.0	89.2
4048.0	2.47036	92.7	90.5
4048.2	2.47023	93.0	90.9
4048.4	2.47011	93.8	91.1
4048.6	2.46999	94.0	91.6
4048.8	2.46987	94.0	92.1
4049.0	2.46975	94.0	92.6
4049.2	2.46962	94.5	92.7
4049.4	2.46950	94.1	92.8
4049.6	2.46938	94.5	92.9
4049.8	2.46926	94.1	93.0
4050.0	2.46914	94.4	93.1
4050.2	2.46901	94.1	93.3
4050.4	2.46889	94.1	92.9
4050.6	2.46877	93.7	92.7
4050.8	2.46865	93.5	92.5
4051.0	2.46853	93.1	92.7
4051.2	2.46840	93.6	92.4
4051.4	2.46828	93.3	92.4
4051.6	2.46816	92.7	92.0
4051.8	2.46804	91.7	91.8
4052.0	2.46792	90.7	91.6
4052.2	2.46780	89.7	91.1
4052.4	2.46767	89.1	91.2
4052.6	2.46755	89.9	90.9
4052.8	2.46743	91.5	91.0
4053.0	2.46731	92.6	91.4
4053.2	2.46719	92.9	92.1
4053.4	2.46706	93.7	92.5
4053.6	2.46694	94.1	93.0
4053.8	2.46682	94.2	93.0
4054.0	2.46670	95.1	93.7
4054.2	2.46658	94.8	93.6
4054.4	2.46646	94.6	93.6
4054.6	2.46633	94.6	93.8
4054.8	2.46621	95.0	93.8

Table 5-11 (Cont'd)

Sam. No.		35	36
p(atm)		8.42 × 10^-4	8.42 × 10^-3
P_e(atm)		5.03 × 10^0	1.003 × 10^1
u(gm/cm²)		2.05 × 10^-3	2.05 × 10^-2
ν (cm⁻¹)	λ (micron)	T × 100	T × 100
4055.0	2.46609	94.6	94.2
4055.2	2.46597	94.8	94.3
4055.4	2.46585	94.8	93.7
4055.6	2.46573	95.0	93.7
4055.8	2.46560	95.0	93.9
4056.0	2.46548	95.7	93.6
4056.2	2.46536	95.3	93.7
4056.4	2.46524	95.2	94.2
4056.6	2.46512	94.7	93.8
4056.8	2.46500	94.7	93.6
4057.0	2.46488	94.8	93.4
4057.2	2.46475	94.5	93.2
4057.4	2.46463	94.1	93.2
4057.6	2.46451	93.5	93.2
4057.8	2.46439	92.9	92.9
4058.0	2.46427	92.9	92.4
4058.2	2.46415	93.0	92.3
4058.4	2.46403	93.3	92.1
4058.6	2.46390	93.3	91.7
4058.8	2.46378	93.3	91.8
4059.0	2.46366	92.2	91.0
4059.2	2.46354	91.3	90.2
4059.4	2.46342	89.3	89.8
4059.6	2.46330	87.6	88.6
4059.8	2.46318	84.9	87.6
4060.0	2.46305	81.5	86.3
4060.2	2.46293	78.9	85.4
4060.4	2.46281	78.5	84.6
4060.6	2.46269	80.2	84.7
4060.8	2.46257	83.6	85.3
4061.0	2.46245	86.3	86.1
4061.2	2.46233	88.4	87.3
4061.4	2.46221	90.1	88.5
4061.6	2.46208	92.0	89.2
4061.8	2.46196	93.1	90.4
4062.0	2.46184	93.6	90.6
4062.2	2.46172	93.8	91.3
4062.4	2.46160	94.2	92.4
4062.6	2.46148	94.5	93.1
4062.8	2.46136	94.9	93.2
4063.0	2.46124	94.7	93.4
4063.2	2.46111	95.3	93.7
4063.4	2.46099	94.9	94.0
4063.6	2.46087	94.9	94.2
4063.8	2.46075	95.5	94.6
4064.0	2.46063	95.2	94.6
4064.2	2.46051	95.2	94.7
4064.4	2.46039	95.6	94.7
4064.6	2.46027	95.7	94.4
4064.8	2.46015	95.6	94.9
4065.0	2.46002	95.9	95.0
4065.2	2.45990	96.1	95.1
4065.4	2.45978	96.1	94.8
4065.6	2.45966	95.6	94.7
4065.8	2.45954	95.7	95.0
4066.0	2.45942	95.9	94.9
4066.2	2.45930	95.1	95.1
4066.4	2.45918	95.6	95.0
4066.6	2.45906	96.0	95.1
4066.8	2.45894	96.3	95.4
4067.0	2.45881	96.0	95.3
4067.2	2.45869	95.9	95.5
4067.4	2.45857	96.3	95.6
4067.6	2.45845	95.2	95.3
4067.8	2.45833	95.2	95.5
4068.0	2.45821	95.6	95.3
4068.2	2.45809	95.4	95.3
4068.4	2.45797	95.7	95.5
4068.6	2.45785	95.7	95.4
4068.8	2.45773	96.0	95.8
4069.0	2.45761	95.5	95.3
4069.2	2.45749	95.6	95.2
4069.4	2.45736	95.3	95.1
4069.6	2.45724	95.5	95.1
4069.8	2.45712	95.8	95.3
4070.0	2.45700	95.2	95.4
4070.2	2.45688	95.2	95.3
4070.4	2.45676	95.3	95.7
4070.6	2.45664	95.8	95.7
4070.8	2.45652	95.2	95.6
4071.0	2.45640	94.6	95.3
4071.2	2.45628	95.3	95.3
4071.4	2.45616	95.5	95.1
4071.6	2.45604	95.3	95.0
4071.8	2.45592	95.1	94.7
4072.0	2.45580	95.2	94.7
4072.2	2.45568	94.0	94.6
4072.4	2.45555	94.2	94.6
4072.6	2.45543	93.7	94.2
4072.8	2.45531	93.5	94.2
4073.0	2.45519	92.1	93.1
4073.2	2.45507	90.9	93.2
4073.4	2.45495	88.3	92.0
4073.6	2.45483	87.3	91.5
4073.8	2.45471	86.2	90.9
4074.0	2.45459	87.1	90.4
4074.2	2.45447	88.6	90.6
4074.4	2.45435	90.7	90.8
4074.6	2.45423	91.8	91.2
4074.8	2.45411	92.1	91.7
4075.0	2.45399	93.2	92.7
4075.2	2.45387	93.2	92.7
4075.4	2.45375	93.0	92.5
4075.6	2.45363	93.7	92.4
4075.8	2.45351	93.7	92.0
4076.0	2.45339	93.7	93.1
4076.2	2.45327	93.4	93.2
4076.4	2.45315	94.0	93.5
4076.6	2.45302	94.1	93.6
4076.8	2.45290	94.1	93.6
4077.0	2.45278	93.3	93.6
4077.2	2.45266	93.6	93.5
4077.4	2.45254	93.3	93.7
4077.6	2.45242	92.7	92.9
4077.8	2.45230	92.4	92.5
4078.0	2.45218	91.3	91.4
4078.2	2.45206	90.1	90.3
4078.4	2.45194	86.4	88.3
4078.6	2.45182	82.2	86.7
4078.8	2.45170	80.0	85.1

Sam. No.		35	36
p(atm)		8.42 × 10^-4	8.42 × 10^-3
P_e(atm)		5.03 × 10^0	1.003 × 10^1
u(gm/cm²)		2.05 × 10^-3	2.05 × 10^-2
ν (cm⁻¹)	λ (micron)	T × 100	T × 100
4079.0	2.45158	77.1	84.6
4079.2	2.45146	73.7	83.4
4079.4	2.45134	73.3	82.5
4079.6	2.45122	74.6	81.6
4079.8	2.45110	78.0	82.3
4080.0	2.45098	82.0	82.6
4080.2	2.45086	84.6	83.6
4080.4	2.45074	85.5	84.8
4080.6	2.45062	86.2	86.0
4080.8	2.45050	85.9	86.5
4081.0	2.45038	85.3	87.1
4081.2	2.45026	85.7	87.5
4081.4	2.45014	87.5	87.9
4081.6	2.45002	88.3	89.1
4081.8	2.44990	90.0	89.8
4082.0	2.44978	91.7	90.0
4082.2	2.44966	92.6	91.5
4082.4	2.44954	93.0	91.9
4082.6	2.44942	93.1	92.0
4082.8	2.44930	93.4	92.5
4083.0	2.44918	93.7	93.2
4083.2	2.44906	93.9	93.2
4083.4	2.44894	93.7	93.5
4083.6	2.44882	93.9	93.5
4083.8	2.44870	93.4	93.1
4084.0	2.44858	93.2	93.0
4084.2	2.44846	92.7	93.5
4084.4	2.44834	92.9	92.5
4084.6	2.44822	91.4	92.4
4084.8	2.44810	91.4	92.2
4085.0	2.44798	91.9	92.2
4085.2	2.44786	90.9	91.4
4085.4	2.44774	90.7	91.3
4085.6	2.44762	89.0	90.8
4085.8	2.44750	87.8	90.4
4086.0	2.44738	87.1	89.8
4086.2	2.44726	87.4	89.3
4086.4	2.44714	87.5	88.5
4086.6	2.44702	88.4	88.9
4086.8	2.44690	88.6	88.7
4087.0	2.44678	87.4	88.3
4087.2	2.44666	85.1	87.5
4087.4	2.44654	81.9	86.5
4087.6	2.44642	78.2	85.6
4087.8	2.44630	75.2	84.5
4088.0	2.44618	74.3	83.6
4088.2	2.44606	75.4	82.8
4088.4	2.44594	78.7	83.0
4088.6	2.44582	83.3	84.2
4088.8	2.44571	86.4	85.6
4089.0	2.44559	88.4	86.8
4089.2	2.44547	90.7	87.9
4089.4	2.44535	91.8	89.4
4089.6	2.44523	93.0	90.8
4089.8	2.44511	93.5	91.7
4090.0	2.44499	93.6	92.5
4090.2	2.44487	94.1	93.2
4090.4	2.44475	94.2	93.9
4090.6	2.44463	94.9	93.6
4090.8	2.44451	94.3	94.7
4091.0	2.44439	95.4	94.6
4091.2	2.44427	94.7	94.8
4091.4	2.44415	95.1	94.8
4091.6	2.44403	94.6	95.3
4091.8	2.44391	94.6	95.1
4092.0	2.44379	95.8	95.1
4092.2	2.44367	95.0	95.4
4092.4	2.44355	94.9	95.6
4092.6	2.44343	95.3	95.5
4092.8	2.44332	94.8	95.3
4093.0	2.44320	95.2	95.4
4093.2	2.44308	94.4	95.0
4093.4	2.44296	94.2	95.1
4093.6	2.44284	94.6	95.2
4093.8	2.44272	94.4	95.0
4094.0	2.44260	94.9	95.4
4094.2	2.44248	95.2	96.3
4094.4	2.44236	95.1	96.7
4094.6	2.44224	95.3	96.2
4094.8	2.44212	95.2	96.7
4095.0	2.44200	95.8	96.3
4095.2	2.44188	95.8	96.0
4095.4	2.44176	95.9	96.1
4095.6	2.44164	95.9	96.3
4095.8	2.44153	95.9	96.3
4096.0	2.44141	95.8	96.6
4096.2	2.44129	95.7	96.6
4096.4	2.44117	95.9	96.5
4096.6	2.44105	95.2	96.2
4096.8	2.44093	95.6	96.1
4097.0	2.44081	95.6	95.6
4097.2	2.44069	96.0	96.5
4097.4	2.44057	96.0	96.3
4097.6	2.44045	95.7	95.4
4097.8	2.44033	96.0	96.3
4098.0	2.44021	95.7	96.5
4098.2	2.44010	95.7	96.3
4098.4	2.43998	95.7	97.0
4098.6	2.43986	95.8	96.6
4098.8	2.43974	96.1	96.2
4099.0	2.43962	96.7	97.2
4099.2	2.43950	96.1	96.3
4099.4	2.43938	96.1	96.1
4099.6	2.43926	96.4	97.2
4099.8	2.43914	96.3	97.0
4100.0	2.43902	96.6	96.4
4100.2	2.43891	96.0	96.7
4100.4	2.43879	95.6	96.0
4100.6	2.43867	95.6	96.0
4100.8	2.43855	96.7	96.1
4101.0	2.43843	95.3	96.4
4101.2	2.43831	96.0	96.2
4101.4	2.43819	96.0	96.3
4101.6	2.43807	96.9	96.3
4101.8	2.43795	96.6	96.6
4102.0	2.43784	96.4	96.0
4102.2	2.43772	96.2	96.1
4102.4	2.43760	96.1	96.1
4102.6	2.43748	96.1	96.4
4102.8	2.43736	91.8	96.2

Sam. No.		35	36
p(atm)		8.42 × 10^-4	8.42 × 10^-3
P_e(atm)		5.03 × 10^0	1.003 × 10^1
u(gm/cm²)		2.05 × 10^-3	2.05 × 10^-2
ν (cm⁻¹)	λ (micron)	T × 100	T × 100
4103.0	2.43724	93.0	93.8
4103.2	2.43712	92.5	92.8
4103.4	2.43700	90.2	92.5
4103.6	2.43688	89.5	91.1
4103.8	2.43677	87.9	90.2
4104.0	2.43665	86.2	89.1
4104.2	2.43653	84.2	87.5
4104.4	2.43641	82.5	86.6
4104.6	2.43629	81.6	85.6
4104.8	2.43617	80.5	84.0
4105.0	2.43605	79.3	82.7
4105.2	2.43593	78.1	81.4
4105.4	2.43582	75.2	80.1
4105.6	2.43570	70.6	78.8
4105.8	2.43558	65.6	77.0
4106.0	2.43546	63.3	75.4
4106.2	2.43534	65.5	74.5
4106.4	2.43522	70.7	75.1
4106.6	2.43510	77.0	77.0
4106.8	2.43499	82.2	79.7
4107.0	2.43487	85.3	82.1
4107.2	2.43475	88.3	84.7
4107.4	2.43463	90.4	86.8
4107.6	2.43451	91.4	88.4
4107.8	2.43439	92.4	90.0
4108.0	2.43427	92.8	90.9
4108.2	2.43416	92.9	91.5
4108.4	2.43404	93.2	92.2
4108.6	2.43392	93.3	92.7
4108.8	2.43380	93.3	92.7
4109.0	2.43368	92.9	93.1
4109.2	2.43356	92.2	93.3
4109.4	2.43345	91.8	93.5
4109.6	2.43333	91.8	92.9
4109.8	2.43321	92.7	93.3
4110.0	2.43309	93.5	93.5
4110.2	2.43297	94.0	94.0
4110.4	2.43285	94.1	94.6
4110.6	2.43273	95.0	95.1
4110.8	2.43262	94.6	95.4
4111.0	2.43250	94.6	95.3
4111.2	2.43238	95.2	95.5
4111.4	2.43226	95.4	95.4
4111.6	2.43214	95.8	95.3
4111.8	2.43202	95.8	95.8
4112.0	2.43191	95.1	96.0
4112.2	2.43179	95.7	96.0
4112.4	2.43167	96.0	96.1
4112.6	2.43155	95.8	95.9
4112.8	2.43143	95.4	96.2
4113.0	2.43132	95.7	96.1
4113.2	2.43120	95.7	96.4
4113.4	2.43108	96.2	95.9
4113.6	2.43096	96.0	96.1
4113.8	2.43084	95.8	96.7
4114.0	2.43072	96.1	96.3
4114.2	2.43061	96.0	96.1
4114.4	2.43049	95.9	95.9
4114.6	2.43037	95.9	96.3
4114.8	2.43025	96.1	96.5
4115.0	2.43013	96.3	96.2
4115.2	2.43002	96.0	96.1
4115.4	2.42990	96.2	96.1
4115.6	2.42978	96.0	96.4
4115.8	2.42966	96.1	96.4
4116.0	2.42954	96.5	96.6
4116.2	2.42943	96.0	96.5
4116.4	2.42931	95.6	96.4
4116.6	2.42919	96.1	96.6
4116.8	2.42907	96.2	96.5
4117.0	2.42895	96.4	96.6
4117.2	2.42884	96.5	96.7
4117.4	2.42872	95.9	96.0
4117.6	2.42860	95.0	96.5
4117.8	2.42848	96.0	96.7
4118.0	2.42836	95.0	96.7
4118.2	2.42825	96.1	96.0
4118.4	2.42813	95.9	96.7
4118.6	2.42801	96.4	96.6
4118.8	2.42789	96.3	96.0
4119.0	2.42777	96.3	96.7
4119.2	2.42766	96.9	96.7
4119.4	2.42754	95.9	96.5
4119.6	2.42742	96.7	96.6
4119.8	2.42730	95.9	96.1
4120.0	2.42718	96.0	96.5
4120.2	2.42707	95.7	96.1
4120.4	2.42695	96.1	96.0
4120.6	2.42683	95.7	95.4
4120.8	2.42671	95.0	95.4
4121.0	2.42660	96.0	95.9
4121.2	2.42648	95.0	95.4
4121.4	2.42636	94.6	95.1
4121.6	2.42625	94.9	96.7
4121.8	2.42613	95.0	95.0
4122.0	2.42601	96.6	96.0
4122.2	2.42589	95.1	95.0
4122.4	2.42578	95.6	95.8
4122.6	2.42566	96.6	96.0
4122.8	2.42554	95.7	95.6
4123.0	2.42542	96.0	95.4
4123.2	2.42531	95.7	96.4
4123.4	2.42519	96.0	96.6
4123.6	2.42507	96.0	96.0
4123.8	2.42495	96.0	96.6
4124.0	2.42483	96.1	95.8
4124.2	2.42472	95.9	96.3
4124.4	2.42460	95.5	95.7
4124.6	2.42448	95.7	95.8
4124.8	2.42437	95.1	95.6
4125.0	2.42424	96.1	95.6
4125.2	2.42413	96.1	95.9
4125.4	2.42401	96.5	96.1
4125.6	2.42389	96.1	96.8
4125.8	2.42377	96.4	96.0
4126.0	2.42365	96.0	96.0
4126.2	2.42354	95.3	96.4
4126.4	2.42342	95.2	96.4
4126.6	2.42330	96.4	96.1
4126.8	2.42319	96.4	95.7

Sam. No.		35	36
p(atm)		8.42 × 10^-4	8.41 × 10^-3
P_e(atm)		5.01 × 10^0	1.003 × 10^1
u(gm/cm²)		2.05 × 10^-3	2.05 × 10^-2
ν (cm⁻¹)	λ (micron)	T × 100	T × 100
4127.0	2.42307	96.4	96.3
4127.2	2.42295	96.1	96.5
4127.4	2.42283	95.9	96.6
4127.6	2.42272	96.3	96.5
4127.8	2.42260	96.1	95.9
4128.0	2.42248	96.3	95.5
4128.2	2.42236	95.4	96.0
4128.4	2.42225	95.2	95.9
4128.6	2.42213	95.0	95.7
4128.8	2.42201	95.2	95.0
4129.0	2.42189	95.5	96.0
4129.2	2.42178	95.0	95.5
4129.4	2.42166	95.3	95.4
4129.6	2.42154	95.6	95.7
4129.8	2.42142	95.0	95.2
4130.0	2.42131	95.6	95.4

Table 5-12 $\int_{\nu'}^{\nu} A(\nu)\, d\nu$

Sam. No.	35	36
p(atm)	8.42 x 10^{-3}	8.42 x 10^{-3}
P_e(atm)	5.03 x 10^{0}	1.003 x 10^{1}
u(gm/cm²)	2.05 x 10^{-2}	2.05 x 10^{-2}
ν (cm^{-1})	ν'=3935 cm^{-1}	ν'=3935 cm^{-1}
3935.0	0.	0.
3935.5	0.289	0.381
3936.0	0.532	0.722
3936.5	0.742	1.034
3937.0	0.942	1.331
3937.5	1.158	1.629
3938.0	1.436	1.949
3938.5	1.777	2.301
3939.0	2.103	2.667
3939.5	2.396	3.022
3940.0	2.659	3.370
3940.5	2.945	3.727
3941.0	3.272	4.113
3941.5	3.648	4.535
3942.0	4.092	4.996
3942.5	4.576	5.480
3943.0	5.064	5.975
3943.5	5.539	6.467
3944.0	5.991	6.946
3944.5	6.421	7.407
3945.0	6.770	7.837
3945.5	7.047	8.224
3946.0	7.307	8.589
3946.5	7.606	8.966
3947.0	8.011	9.396
3947.5	8.480	9.877
3948.0	8.971	10.370
3948.5	9.432	10.855
3949.0	9.863	11.324
3949.5	10.321	11.787
3950.0	10.802	12.258
3950.5	11.273	12.725
3951.0	11.686	13.170
3951.5	12.009	13.546
3952.0	12.288	13.922
3952.5	12.586	14.255
3953.0	12.934	14.587
3953.5	13.279	14.918
3954.0	13.562	15.226
3954.5	13.745	15.500
3955.0	13.948	15.754
3955.5	14.167	16.006
3956.0	14.383	16.264
3956.5	14.636	16.540
3957.0	14.989	16.846
3957.5	15.278	17.154
3958.0	15.548	17.445
3958.5	15.799	17.720
3959.0	16.006	17.973
3959.5	16.245	18.225
3960.0	16.468	18.483
3960.5	16.639	18.723
3961.0	16.869	18.986
3961.5	17.272	19.339
3962.0	17.607	19.779
3962.5	17.875	20.172
3963.0	18.141	20.441
3963.5	18.199	20.667
3964.0	18.438	20.834
3964.5	18.602	21.000
3965.0	18.749	21.176
3965.5	18.868	21.347
3966.0	18.958	21.466
3966.5	19.036	21.592
3967.0	19.127	21.722
3967.5	19.238	21.884
3968.0	19.371	22.026
3968.5	19.568	22.225
3969.0	[illegible]	22.486
3969.5	20.102	22.702
3970.0	20.390	23.055
3970.5	20.554	23.278
3971.0	20.718	23.405
3971.5	20.995	23.600
3972.0	21.176	23.930
3972.5	21.479	24.190
3973.0	21.761	24.442
3973.5	21.901	24.717
3974.0	22.262	24.988
3974.5	22.523	25.221
3975.0	22.882	25.606
3975.5	23.007	25.781
3976.0	23.413	26.100
3976.5	23.719	26.490
3977.0	[illegible]	26.809
3977.5	23.970	26.988
3978.0	[illegible]	[illegible]
3978.5	24.130	27.003
3979.0	[illegible]	27.196
3979.5	[illegible]	[illegible]
3980.0	[illegible]	27.466
3980.5	24.610	27.641
3981.0	[illegible]	27.799
3981.5	[illegible]	[illegible]
3982.0	[illegible]	[illegible]
3982.5	[illegible]	[illegible]
3983.0	[illegible]	[illegible]
3983.5	[illegible]	[illegible]
3984.0	[illegible]	[illegible]
3984.5	[illegible]	[illegible]
3985.0	[illegible]	[illegible]
3985.5	[illegible]	[illegible]
3986.0	[illegible]	[illegible]
3986.5	26.190	[illegible]
3987.0	[illegible]	[illegible]
3987.5	26.286	29.450
3988.0	26.343	29.534
3988.5	26.402	29.623
3989.0	26.473	29.722
3989.5	26.598	29.852
3990.0	26.793	30.045
3990.5	27.036	30.273
3991.0	27.308	30.517
3991.5	27.507	30.726
3992.0	27.632	30.894
3992.5	27.749	31.046
3993.0	27.882	31.183
3993.5	27.986	31.331
3994.0	28.099	31.469
3994.5	28.275	31.628
3995.0	28.532	31.822
3995.5	28.767	32.027
3996.0	28.909	32.199
3996.5	28.998	32.332
3997.0	29.069	32.439
3997.5	29.128	32.529
3998.0	29.175	32.606
3998.5	29.220	32.677
3999.0	29.269	32.747
3999.5	29.311	32.814
4000.0	29.352	32.877
4000.5	29.397	32.961
4001.0	29.448	33.097
4001.5	29.501	33.076
4002.0	29.548	33.142
4002.5	29.598	33.208
4003.0	29.677	33.297
4003.5	29.752	33.393
4004.0	29.809	33.481
4004.5	29.858	33.553
4005.0	29.917	33.628
4005.5	29.988	33.711
4006.0	30.056	33.797
4006.5	30.122	33.888
4007.0	30.207	33.991
4007.5	30.336	34.118
4008.0	30.531	34.278
4008.5	30.801	34.475
4009.0	31.055	34.686
4009.5	31.215	34.872
4010.0	31.316	35.019
4010.5	31.393	35.138
4011.0	31.462	35.241
4011.5	31.531	35.330
4012.0	31.611	35.433
4012.5	31.717	35.534
4013.0	31.820	35.639
4013.5	31.891	35.734
4014.0	31.955	35.822
4014.5	32.016	35.904
4015.0	32.070	35.980
4015.5	32.126	36.054
4016.0	32.178	36.129
4016.5	32.239	36.209
4017.0	32.314	36.294
4017.5	32.390	36.384
4018.0	32.462	36.477
4018.5	32.562	36.573
4019.0	32.699	36.692
4019.5	32.877	36.820
4020.0	33.036	36.969
4020.5	33.150	37.0
4021.0	33.219	37.201
4021.5	33.288	37.291
4022.0	33.369	37.372
4022.5	[illegible]	37.446
4023.0	33.441	37.510
4023.5	[illegible]	37.588
4024.0	[illegible]	37.688
4024.5	33.644	37.764
4025.0	[illegible]	37.887
4025.5	34.021	[illegible]
4026.0	[illegible]	[illegible]
4026.5	[illegible]	[illegible]
4027.0	[illegible]	[illegible]
4027.5	[illegible]	[illegible]
4028.0	[illegible]	[illegible]
4028.5	[illegible]	[illegible]
4029.0	[illegible]	[illegible]
4029.5	[illegible]	[illegible]
4030.0	[illegible]	[illegible]
4030.5	[illegible]	[illegible]
4031.0	[illegible]	[illegible]
4031.5	[illegible]	[illegible]
4032.0	[illegible]	[illegible]
4032.5	[illegible]	[illegible]
4033.0	[illegible]	[illegible]
4033.5	[illegible]	[illegible]
4034.0	[illegible]	[illegible]
4034.5	[illegible]	[illegible]
4035.0	[illegible]	[illegible]
4035.5	[illegible]	[illegible]
4036.0	[illegible]	[illegible]
4036.5	[illegible]	[illegible]
4037.0	[illegible]	[illegible]
4037.5	[illegible]	[illegible]
4038.0	[illegible]	[illegible]
4038.5	[illegible]	[illegible]
4039.0	[illegible]	[illegible]
4039.5	[illegible]	[illegible]
4040.0	35.319	39.757
4040.5	35.554	39.799
4041.0	35.590	39.843
4041.5	35.626	39.888
4042.0	35.666	39.937
4042.5	35.716	39.997
4043.0	35.784	40.073
4043.5	35.894	40.172
4044.0	36.054	40.299
4044.5	36.260	40.459
4045.0	36.516	40.645
4045.5	36.735	40.833
4046.0	36.865	40.983
4046.5	36.942	41.094
4047.0	36.995	41.173
4047.5	37.038	41.234
4048.0	37.075	41.288
4048.5	37.107	41.332
4049.0	37.137	41.372
4049.5	37.165	41.409
4050.0	37.193	41.444
4050.5	37.222	41.480
4051.0	37.255	41.517
4051.5	37.288	41.553
4052.0	37.328	41.592
4052.5	37.378	41.635
4053.0	37.422	41.678
4053.5	37.455	41.716
4054.0	37.482	41.750
4054.5	37.508	41.782
4055.0	37.533	41.814
4055.5	37.559	41.846
4056.0	37.584	41.875
4056.5	37.607	41.906
4057.0	37.633	41.937
4057.5	37.661	41.971
4058.0	37.696	42.006
4058.5	37.730	42.045
4059.0	37.765	42.087
4059.5	37.812	42.136
4060.0	37.885	42.197
4060.5	37.988	42.271
4061.0	38.075	42.345
4061.5	38.131	42.407
4062.0	38.167	42.457
4062.5	38.198	42.499
4063.0	38.224	42.533
4063.5	38.249	42.564
4064.0	38.271	42.593
4064.5	38.296	42.619
4065.0	38.317	42.645
4065.5	38.337	42.670
4066.0	38.359	42.696
4066.5	38.381	42.721
4067.0	38.408	42.745
4067.5	38.420	42.767
4068.0	38.442	42.790
4068.5	38.466	42.813
4069.0	[illegible]	42.835
4069.5	[illegible]	42.859
4070.0	38.529	42.883
4070.5	38.552	42.906
4071.0	38.575	42.928
4071.5	38.599	42.952
4072.0	38.623	42.978
4072.5	38.650	43.006
4073.0	38.681	43.039
4073.5	38.736	43.078
4074.0	38.800	43.116
4074.5	38.856	[illegible]
4075.0	38.893	43.202
4075.5	38.930	43.250
4076.0	38.962	43.276
4076.5	38.993	43.307
4077.0	39.027	43.340
4077.5	[illegible]	43.376
4078.0	[illegible]	43.411
4078.5	39.149	43.464
4079.0	39.241	43.521
4079.5	39.308	43.600
4080.0	39.402	43.696
4080.5	39.506	43.779
4081.0	39.630	43.867
4081.5	[illegible]	43.940
4082.0	[illegible]	[illegible]
4082.5	[illegible]	44.009
4083.0	39.841	44.043
4083.5	[illegible]	44.076
4084.0	[illegible]	44.118
4084.5	[illegible]	[illegible]
4085.0	[illegible]	44.186
4085.5	[illegible]	[illegible]
4086.0	[illegible]	[illegible]
4086.5	40.131	[illegible]
4087.0	[illegible]	[illegible]
4087.5	[illegible]	[illegible]
4088.0	[illegible]	[illegible]
4088.5	[illegible]	[illegible]
4089.0	[illegible]	[illegible]
4089.5	40.421	[illegible]
4090.0	[illegible]	[illegible]
4090.5	[illegible]	[illegible]
4091.0	[illegible]	[illegible]
4091.5	[illegible]	[illegible]
4092.0	[illegible]	[illegible]
4092.5	40.787	44.920
4093.0	40.812	44.942
4093.5	40.840	44.967
4094.0	40.867	44.991
4094.5	40.892	45.010
4095.0	40.915	45.028
4095.5	40.936	45.047
4096.0	40.957	45.065
4096.5	40.978	45.082
4097.0	41.000	45.100
4097.5	41.021	45.117
4098.0	41.043	45.134
4098.5	41.064	45.150
4099.0	41.084	45.166
4099.5	41.105	45.181
4100.0	41.128	45.197
4100.5	41.153	45.215
4101.0	41.177	45.232
4101.5	41.204	45.251
4102.0	41.230	45.272
4102.5	41.260	45.295
4103.0	41.292	45.324
4103.5	41.334	45.360
4104.0	41.393	45.408
4104.5	41.474	45.471
4105.0	41.570	45.549
4105.5	41.685	45.644
4106.0	41.848	45.756
4106.5	42.011	45.888
4107.0	42.109	45.986
4107.5	42.166	46.060
4108.0	42.206	46.112
4108.5	42.241	46.154
4109.0	42.275	46.190
4109.5	42.314	46.224
4110.0	42.352	46.258
4110.5	42.382	46.287
4111.0	42.408	46.311
4111.5	42.432	46.333
4112.0	42.454	46.355
4112.5	42.476	46.375
4113.0	42.498	46.394
4113.5	42.518	46.414
4114.0	42.539	46.433
4114.5	42.559	46.453
4115.0	42.578	46.471
4115.5	42.598	46.490
4116.0	42.617	46.508
4116.5	42.637	46.526
4117.0	42.656	46.543
4117.5	42.675	46.559
4118.0	42.695	46.576
4118.5	42.715	46.591
4119.0	42.734	46.608
4119.5	42.753	46.626
4120.0	42.772	46.644
4120.5	42.796	46.664
4121.0	42.825	46.685
4121.5	42.851	46.709
4122.0	42.882	46.735
4122.5	42.905	46.760
4123.0	42.927	46.786
4123.5	42.954	46.803
4124.0	42.988	[illegible]
4124.5	[illegible]	[illegible]
4125.0	43.013	[illegible]
4125.5	43.047	[illegible]
4126.0	[illegible]	[illegible]
4126.5	[illegible]	[illegible]
4127.0	43.116	[illegible]
4127.5	43.134	46.976
4128.0	[illegible]	[illegible]
4128.5	[illegible]	47.013
4129.0	[illegible]	[illegible]
4129.5	[illegible]	[illegible]
4130.0	[illegible]	[illegible]

Table 5-13 $\frac{1}{u}\int_{\nu'}^{\nu} -\ln T(\nu)\,d\nu$

Sam. No.	35	36
p(atm)	8.42 x 10⁻³	8.42 x 10⁻³
P_e(atm)	5.03 x 10⁰	1.003 x 10¹
u(gm/cm²)	2.05 x 10⁻²	2.05 x 10⁻²
ν (cm⁻¹)	ν'-3935 cm⁻¹	ν'-3935 cm⁻¹
3935.0	0.	0.
3935.5	2.1109209+001	3.5196405+001
3936.0	3.7341392+001	6.3110575+001
3936.5	5.0646666+001	8.6984235+001
3937.0	6.3063747+001	1.0889854+002
3937.5	7.6878516+001	1.3105742+002
3938.0	9.6772951+001	1.5590691+002
3938.5	1.2479609+002	1.8566707+002
3939.0	1.5051947+002	2.1763029+002
3939.5	1.7201701+002	2.4783763+002
3940.0	1.9022289+002	2.7681750+002
3940.5	2.1091387+002	3.0740315+002
3941.0	2.3684465+002	3.4352899+002
3941.5	2.7124600+002	3.8939929+002
3942.0	3.2627492+002	4.5202099+002
3942.5	4.1068480+002	5.3737159+002
3943.0	5.0310444+002	6.4776513+002
3943.5	5.7481574+002	7.4958227+002
3944.0	6.3425025+002	8.2875262+002
3944.5	6.8259659+002	8.9129968+002
3945.0	7.1225768+002	9.3939022+002
3945.5	7.3203872+002	9.7572561+002
3946.0	7.4984760+002	1.0076114+003
3946.5	7.7226342+002	1.0420134+003
3947.0	8.1497040+002	1.0908890+003
3947.5	8.9147572+002	1.1749072+003
3948.0	9.7431114+002	1.2785887+003
3948.5	1.0382047+003	1.3656938+003
3949.0	1.0863748+003	1.4339909+003
3949.5	1.1479452+003	1.4969125+003
3950.0	1.2285490+003	1.5663332+003
3950.5	1.2990512+003	1.6334203+003
3951.0	1.3423200+003	1.6873853+003
3951.5	1.3681699+003	1.7264690+003
3952.0	1.3880837+003	1.7565715+003
3952.5	1.4102564+003	1.7833501+003
3953.0	1.4393751+003	1.8098933+003
3953.5	1.4680475+003	1.8362926+003
3954.0	1.4864050+003	1.8595921+003
3954.5	1.4990564+003	1.8789763+003
3955.0	1.5117765+003	1.8962474+003
3955.5	1.5258342+003	1.9133760+003
3956.0	1.5396207+003	1.9309715+003
3956.5	1.5590320+003	1.9535491+003
3957.0	1.5858467+003	1.9736663+003
3957.5	1.6069378+003	1.9970391+003
3958.0	1.6258038+003	2.0102550+003
3958.5	1.6428749+003	2.0377001+003
3959.0	1.6558640+003	2.0546955+003
3959.5	1.6717388+003	2.0719981+003
3960.0	1.6862045+003	2.0896018+003
3960.5	1.6971480+003	2.1056041+003
3961.0	1.7133931+003	2.1237986+003
3961.5	1.7306842+003	2.1544576+003
3962.0	1.7903220+003	2.2065345+003
3962.5	1.8191284+003	2.2460880+003
3963.0	1.8289503+003	2.2651019+003
3963.5	1.8379304+003	2.2780015+003
3964.0	1.8470010+003	2.2894726+003
3964.5	1.8550221+003	2.2990492+003
3965.0	1.8643000+003	2.3097751+003
3965.5	1.8704176+003	2.3186567+003
3966.0	1.8752420+003	2.3264260+003
3966.5	1.8798390+003	2.3336267+003
3967.0	1.8847612+003	2.3410366+003
3967.5	[illegible]	[illegible]
3968.0	[illegible]	[illegible]
3968.5	[illegible]	[illegible]
3969.0	[illegible]	[illegible]
3969.5	[illegible]	[illegible]
3970.0	[illegible]	[illegible]
3970.5	[illegible]	[illegible]
3971.0	[illegible]	[illegible]
3971.5	[illegible]	[illegible]
3972.0	[illegible]	[illegible]
3972.5	[illegible]	[illegible]
3973.0	[illegible]	[illegible]
3973.5	[illegible]	[illegible]
3974.0	[illegible]	[illegible]
3974.5	[illegible]	[illegible]
3975.0	[illegible]	[illegible]
3975.5	[illegible]	[illegible]
3976.0	[illegible]	[illegible]
3976.5	[illegible]	[illegible]
3977.0	[illegible]	[illegible]
3977.5	[illegible]	[illegible]
3978.0	[illegible]	[illegible]
3978.5	[illegible]	[illegible]
3979.0	[illegible]	[illegible]
3979.5	[illegible]	[illegible]
3980.0	[illegible]	[illegible]
3980.5	[illegible]	[illegible]
3981.0	[illegible]	[illegible]
3981.5	[illegible]	[illegible]
3982.0	[illegible]	[illegible]
3982.5	[illegible]	[illegible]
3983.0	[illegible]	[illegible]
3983.5	[illegible]	[illegible]
3984.0	[illegible]	[illegible]
3984.5	[illegible]	[illegible]

Sam. No.	35	36
p(atm)	8.42 x 10⁻³	8.42 x 10⁻³
P_e(atm)	5.03 x 10⁰	1.003 x 10¹
u(gm/cm²)	2.05 x 10⁻²	2.05 x 10⁻²
ν (cm⁻¹)	ν'-3935 cm⁻¹	ν'-3935 cm⁻¹
3985.0	2.3292566+003	2.8143461+003
3985.5	2.3356011+003	2.8207644+003
3986.0	2.3405574+003	2.8271948+003
3986.5	2.3430752+003	2.8329741+003
3987.0	2.3486596+003	2.8380593+003
3987.5	2.3517043+003	2.8427843+003
3988.0	2.3546492+003	2.8472888+003
3988.5	2.3577422+003	2.8520419+003
3989.0	2.3614898+003	2.8574299+003
3989.5	2.3685117+003	2.8647805+003
3990.0	2.3805851+003	2.8766851+003
3990.5	2.3969135+003	2.8915631+003
3991.0	2.4161172+003	2.9079036+003
3991.5	2.4286350+003	2.9210798+003
3992.0	2.4356187+003	2.9310770+003
3992.5	2.4421282+003	2.9394964+003
3993.0	2.4496882+003	2.9480854+003
3993.5	2.4553405+003	2.9562377+003
3994.0	2.4616067+003	2.9641119+003
3994.5	2.4722833+003	2.9734511+003
3995.0	2.4899426+003	2.9853873+003
3995.5	2.5024995+003	2.9982412+003
3996.0	2.5136815+003	3.0085811+003
3996.5	2.5184985+003	3.0160954+003
3997.0	2.5222259+003	3.0219650+003
3997.5	2.5252639+003	3.0258223+003
3998.0	2.5276675+003	3.0308931+003
3998.5	2.5299591+003	3.0346303+003
3999.0	2.5324986+003	3.0382811+003
3999.5	2.5346477+003	3.0417632+003
4000.0	2.5366848+003	3.0450425+003
4000.5	2.5390020+003	3.0484122+003
4001.0	2.5416230+003	3.0518598+003
4001.5	2.5443735+003	3.0554481+003
4002.0	2.5467372+003	3.0589013+003
4002.5	2.5493359+003	3.0625426+003
4003.0	2.5535425+003	3.0671331+003
4003.5	2.5574567+003	3.0723410+003
4004.0	2.5604390+003	3.0770418+003
4004.5	2.5629235+003	3.0808215+003
4005.0	2.5659857+003	3.0848177+003
4005.5	2.5697342+003	3.0892183+003
4006.0	2.5732990+003	3.0938168+003
4006.5	2.5767546+003	3.0986965+003
4007.0	2.5812698+003	3.1043439+003
4007.5	2.5885810+003	3.1114400+003
4008.0	2.6057335+003	3.1209176+003
4008.5	2.6196869+003	3.1331022+003
4009.0	2.6370803+003	3.1464154+003
4009.5	2.6465786+003	3.1577929+003
4010.0	2.6519708+003	3.1662908+003
4010.5	2.6561349+003	3.1729175+003
4011.0	2.6597864+003	3.1785440+003
4011.5	2.6633986+003	3.1837512+003
4012.0	2.6676203+003	3.1880811+003
4012.5	2.6734276+003	3.1944269+003
4013.0	2.6790641+003	3.2031216+003
4013.5	2.6829111+003	3.2093119+003
4014.0	2.6861732+003	3.2099864+003
4014.5	2.6891978+003	3.2143654+003
4015.0	2.6921121+003	3.2183901+003
4015.5	2.6950091+003	3.2223055+003
4016.0	2.6976712+003	3.2262231+003
4016.5	2.7006670+003	3.2323566+003
4017.0	[illegible]	[illegible]
4017.5	[illegible]	[illegible]
4018.0	[illegible]	[illegible]
4018.5	[illegible]	[illegible]
4019.0	[illegible]	[illegible]
4019.5	[illegible]	[illegible]
4020.0	[illegible]	[illegible]
4020.5	[illegible]	[illegible]
4021.0	[illegible]	[illegible]
4021.5	[illegible]	[illegible]
4022.0	[illegible]	[illegible]
4022.5	[illegible]	[illegible]
4023.0	[illegible]	[illegible]
4023.5	[illegible]	[illegible]
4024.0	[illegible]	[illegible]
4024.5	[illegible]	[illegible]
4025.0	[illegible]	[illegible]
4025.5	[illegible]	[illegible]
4026.0	[illegible]	[illegible]
4026.5	[illegible]	[illegible]
4027.0	[illegible]	[illegible]
4027.5	[illegible]	[illegible]
4028.0	[illegible]	[illegible]
4028.5	[illegible]	[illegible]
4029.0	[illegible]	[illegible]
4029.5	[illegible]	[illegible]
4030.0	[illegible]	[illegible]
4030.5	[illegible]	[illegible]
4031.0	[illegible]	[illegible]
4031.5	[illegible]	[illegible]
4032.0	[illegible]	[illegible]
4032.5	[illegible]	[illegible]
4033.0	[illegible]	[illegible]
4033.5	[illegible]	[illegible]
4034.0	[illegible]	[illegible]
4034.5	[illegible]	[illegible]

Sam. No.	35	36
p(atm)	8.42 x 10⁻³	8.42 x 10⁻³
P_e(atm)	5.03 x 10⁰	1.003 x 10¹
u(gm/cm²)	2.05 x 10⁻²	2.05 x 10⁻²
ν (cm⁻¹)	ν'-3935 cm⁻¹	ν'-3935 cm⁻¹
4035.0	2.8643578+003	3.4034478+003
4035.5	2.8660171+003	3.4055020+003
4036.0	2.8676261+003	3.4073606+003
4036.5	2.8692841+003	3.4091999+003
4037.0	2.8708526+003	3.4109931+003
4037.5	2.8723240+003	3.4127039+003
4038.0	2.8737277+003	3.4143915+003
4038.5	2.8751140+003	3.4161127+003
4039.0	2.8767139+003	3.4179096+003
4039.5	2.8784375+003	3.4198153+003
4040.0	2.8801617+003	3.4217994+003
4040.5	2.8819466+003	3.4239076+003
4041.0	2.8837756+003	3.4261477+003
4041.5	2.8855[illegible]+003	3.4284284+003
4042.0	2.8875934+003	3.4309712+003
4042.5	2.8901517+003	3.4340788+003
4043.0	2.8937379+003	3.4381167+003
4043.5	2.8997965+003	3.4434865+003
4044.0	2.9092306+003	3.4506420+003
4044.5	2.9221762+003	3.4600104+003
4045.0	2.9397252+003	3.4713940+003
4045.5	2.9538861+003	3.4827125+003
4046.0	2.9612269+003	3.4915548+003
4046.5	2.9653276+003	3.4976548+003
4047.0	2.9680524+003	3.5018029+003
4047.5	2.9702309+003	3.5050659+003
4048.0	2.9721108+003	3.5078034+003
4048.5	2.9737429+003	3.5100835+003
4049.0	2.9752578+003	3.5120966+003
[illegible]	2.9766710+003	3.5139857+003
4050.0	2.9780662+003	3.5157614+003
4050.5	2.9795209+003	3.5175760+003
4051.0	2.9811714+003	3.5194212+003
4051.5	2.9828103+003	3.5212651+003
4052.0	2.9848706+003	3.5232406+003
4052.5	2.9874445+003	3.5254337+003
4053.0	2.9896993+003	3.5276209+003
4053.5	2.9913521+003	3.5295420+003
4054.0	2.9926795+003	3.5312720+003
4054.5	2.9939735+003	3.5328805+003
4055.0	2.9952622+003	3.5344517+003
4055.5	2.9965676+003	3.5359801+003
4056.0	2.9977771+003	3.5375477+003
4056.5	2.9989464+003	3.5390910+003
4057.0	3.0002525+003	3.5406633+003
4057.5	3.0016662+003	3.5423657+00[illegible]
4058.0	3.0033916+003	3.5441515+003
4058.5	3.0051359+003	3.5461210+003
4059.0	3.0068036+003	3.5482496+003
4059.5	3.0092031+003	3.5537669+003
4060.0	3.0131351+003	3.5539362+003
4060.5	3.0187709+003	3.5578232+003
4061.0	3.0234148+003	3.5617257+003
4061.5	3.0263197+003	3.5669405+003
4062.0	3.0281765+003	3.5679490+003
4062.5	3.0294943+003	3.5696726+003
4063.0	3.0316145+003	3.5713955+003
4063.5	3.0322552+003	3.5729615+003
4064.0	3.0324491+003	3.5743807+003
4064.5	3.0344843+003	3.5757187+003
4065.0	[illegible]	[illegible]
4065.5	[illegible]	[illegible]
4066.0	[illegible]	[illegible]
4066.5	[illegible]	[illegible]
4067.0	[illegible]	[illegible]
4067.5	[illegible]	[illegible]
4068.0	[illegible]	[illegible]
4068.5	[illegible]	[illegible]
4069.0	[illegible]	[illegible]
4069.5	[illegible]	[illegible]
4070.0	[illegible]	[illegible]
4070.5	[illegible]	[illegible]
4071.0	[illegible]	[illegible]
4071.5	[illegible]	[illegible]
4072.0	[illegible]	[illegible]
4072.5	[illegible]	[illegible]
4073.0	[illegible]	[illegible]
4073.5	[illegible]	[illegible]
4074.0	[illegible]	[illegible]
4074.5	[illegible]	[illegible]
4075.0	[illegible]	[illegible]
4075.5	[illegible]	[illegible]
4076.0	[illegible]	[illegible]
4076.5	[illegible]	[illegible]
4077.0	[illegible]	[illegible]
4077.5	[illegible]	[illegible]
4078.0	[illegible]	[illegible]
4078.5	[illegible]	[illegible]
4079.0	[illegible]	[illegible]
4079.5	[illegible]	[illegible]
4080.0	[illegible]	[illegible]
4080.5	[illegible]	[illegible]
4081.0	[illegible]	[illegible]
4081.5	[illegible]	[illegible]
4082.0	[illegible]	[illegible]
4082.5	[illegible]	[illegible]
4083.0	[illegible]	[illegible]
4083.5	[illegible]	[illegible]
4084.0	[illegible]	[illegible]
4084.5	[illegible]	[illegible]

Sam. No.	35	36
p(atm)	8.42 x 10⁻³	8.42 x 10⁻³
P_e(atm)	5.03 x 10⁰	1.003 x 10¹
u(gm/cm²)	2.05 x 10⁻²	2.05 x 10⁻²
ν (cm⁻¹)	ν'-3935 cm⁻¹	ν'-3935 cm⁻¹
4085.0	3.1209510+003	3.6557267+003
4085.5	3.1233268+003	3.6578976+003
4086.0	3.1263931+003	3.6603414+003
4086.5	3.1296608+003	3.6631490+003
4087.0	3.1327172+003	3.6660776+003
4087.5	3.1369470+003	3.6694067+003
4088.0	3.1435071+003	3.6734253+003
4088.5	3.1499682+003	3.6779434+003
4089.0	3.1538393+003	3.6818377+003
4089.5	3.1562070+003	3.6848470+003
4090.0	3.1579031+003	3.6870343+003
4090.5	3.1593935+003	3.6887218+003
4091.0	3.1607090+003	3.6901667+003
4091.5	3.1619647+003	3.6914753+003
4092.0	3.1632296+003	3.6926726+003
4092.5	3.1644427+003	3.6938132+003
4093.0	3.1656746+003	3.6949404+003
4093.5	3.1670481+003	3.6961512+003
4094.0	3.1684119+003	3.6973465+003
4094.5	3.1696651+003	3.6983169+003
4095.0	3.1708278+003	3.6991872+003
4095.5	3.1718785+003	3.7001450+003
4096.0	3.1729293+003	3.7010278+003
4096.5	3.1739752+003	3.7018892+003
4097.0	3.1750707+003	3.7027819+003
4097.5	3.1761105+003	3.7036310+003
4098.0	3.1771709+003	3.7044714+003
4098.5	3.1782431+003	3.7052748+003
4099.0	3.1792530+003	3.7060505+003
4099.5	3.1802952+003	3.7068090+003
4100.0	3.1814310+003	3.7075[illegible]52+003
4100.5	3.1826557+003	3.7084940+003
4101.0	3.1838964+003	3.7093255+003
4101.5	3.1852041+003	3.7102706+003
4102.0	3.1865076+003	3.7112938+003
4102.5	3.1880254+003	3.7124642+003
4103.0	3.1896634+003	3.7139100+003
4103.5	3.1917880+003	3.7157277+003
4104.0	3.1948331+003	3.7181809+003
4104.5	3.1991702+003	3.7214669+003
4105.0	3.2043429+003	3.7255940+003
4105.5	3.2137353+003	3.7327084+003
4106.0	3.2203879+003	3.7369263+003
4106.5	3.2300022+003	3.7430900+003
4107.0	3.2353376+003	[illegible]
4107.5	3.2383015+003	3.7535846+003
4108.0	3.2403239+003	3.7562757+003
4108.5	3.2420971+003	3.7581951+003
4109.0	3.2438148+003	3.7602257+003
4109.5	3.2453026+003	3.7619180+003
4110.0	3.2477003+003	3.7636215+003
4110.5	3.2492093+003	3.7650865+003
4111.0	3.2505282+003	3.7662696+003
4111.5	3.2517961+003	3.7676010+003
4112.0	3.2528736+003	3.7686722+003
4112.5	3.2538943+003	3.7694613+003
4113.0	3.2549791+003	3.7704603+003
4113.5	3.2565116+003	3.7713927+003
4114.0	3.2570240+003	3.7723557+003
4114.5	[illegible]	3.7733296+003
4115.0	[illegible]	[illegible]
4115.5	[illegible]	[illegible]
4116.0	[illegible]	[illegible]
4116.5	[illegible]	[illegible]
4117.0	[illegible]	[illegible]
4117.5	[illegible]	[illegible]
4118.0	[illegible]	[illegible]
4118.5	[illegible]	[illegible]
4119.0	[illegible]	[illegible]
4119.5	[illegible]	[illegible]
4120.0	[illegible]	[illegible]
4120.5	[illegible]	[illegible]
4121.0	[illegible]	[illegible]
4121.5	[illegible]	[illegible]
4122.0	[illegible]	[illegible]
4122.5	[illegible]	[illegible]
4123.0	[illegible]	[illegible]
4123.5	[illegible]	[illegible]
4124.0	[illegible]	[illegible]
4124.5	[illegible]	[illegible]
4125.0	[illegible]	[illegible]
4125.5	[illegible]	[illegible]
4126.0	[illegible]	[illegible]
4126.5	[illegible]	[illegible]
4127.0	[illegible]	[illegible]
4127.5	[illegible]	[illegible]
4128.0	[illegible]	[illegible]
4128.5	[illegible]	[illegible]
4129.0	[illegible]	[illegible]
4129.5	[illegible]	[illegible]
4130.0	[illegible]	[illegible]

SECTION 6

SAMPLES WITH LARGE ABSORBER THICKNESS AND LOW PRESSURE

6.1 DISCUSSION

The spectra discussed in this section were selected to show the maximum structure and to provide data from which half-widths of many of the lines can be determined. After the line strengths have been determined, the half-widths can be found from the integrated absorptance by the use of the well-known Ladenberg and Reiche[16] function which has been tabulated by Kaplan and Eggers.[17]

The samples were chosen with P_e sufficiently low that the integrated absorptance of the stronger lines was highly pressure dependent, yet high enough that Doppler broadening could be neglected. Of course, the half-widths must be determined from samples in which the integrated absorptance is dependent on pressure. Approximate values of the strengths of some of the weaker lines can be found from the results of Samples 39 and 41, whose equivalent pressures are approximately 1 atm. The sample parameters are listed in Table 6-1.

Several H_2O and HDO lines which can be seen below 2900 cm^{-1} in the spectra of Samples 40 and 41 have not been observed in solar spectra because of overlapping CH_4 lines. The most important HDO lines have been observed and identified by Benedict, Gailar and Plyler;[7] and some which are not hidden in solar spectra have been identified by Migeotte et al.[6]

Several of the lines used for calibration are indicated in the spectra of Samples 37, 38 and 40. Every tenth line has been numbered, and lines whose numbers end in 5 have been indicated with an "x." Wavenumbers of these lines are given in Table 2-2.

The results for $\nu < 3000\ cm^{-1}$ are considerably less accurate than those for higher wavenumbers because of the uncertainty in placing the zero absorptance (background) curves on the spectra. In this region the recorder deflection was low and there were no tie-points nearby. Furthermore, there was some unexplained variation in zero-absorptance curves from one day to another. We did not determine the cause of this unusual variation, but it may have been a varying film of oil or other substance on some of the optical components. In order to reduce the spectra, an estimated zero absorptance curve was obtained by joining several of the absorptance minima of Sample 40 by a smooth curve. A curve having the same shape was then drawn on the spectrum of Sample 41 with the height adjusted to give a "reasonable" absorptance near the absorptance minima.

6.2 RESULTS

TABLE 6-1

SAMPLE PARAMETERS

Sam. No.	p torr	P torr	P_e* torr	p atm	P atm	P_e atm	L Path m	u gm/cm^2
37	5.6	230	252	0.00737	0.303	0.332	32.9	0.0180
38	4.15	134	151	0.00546	0.176	0.199	4.16	0.00169
39	7.35	723	752	0.00967	0.951	0.989	121	0.0867
40	15.3	152	213	0.0201	0.200	0.280	933	1.39
41	15.2	681	742	0.0200	0.896	0.976	933	1.38

Sam. No.	Spectral Region to which Transmittance and Integral Tables Are Shown		
	Table 6-2, 6-3 cm^{-1}	Table 6-4, 6-5 cm^{-1}	Table 6-6, 6-7 cm^{-1}
37	2938-3464		
38		3464-3810	3810-4049
39	2929-3464	3464-3810	3810-4258
40	2808-3464		3810-4365
41	2808-3460		3810-4365

*P_e = P + 4p in accordance with Equation (3-8) and the results in Section 3. All samples were at room temperature, 296°K.

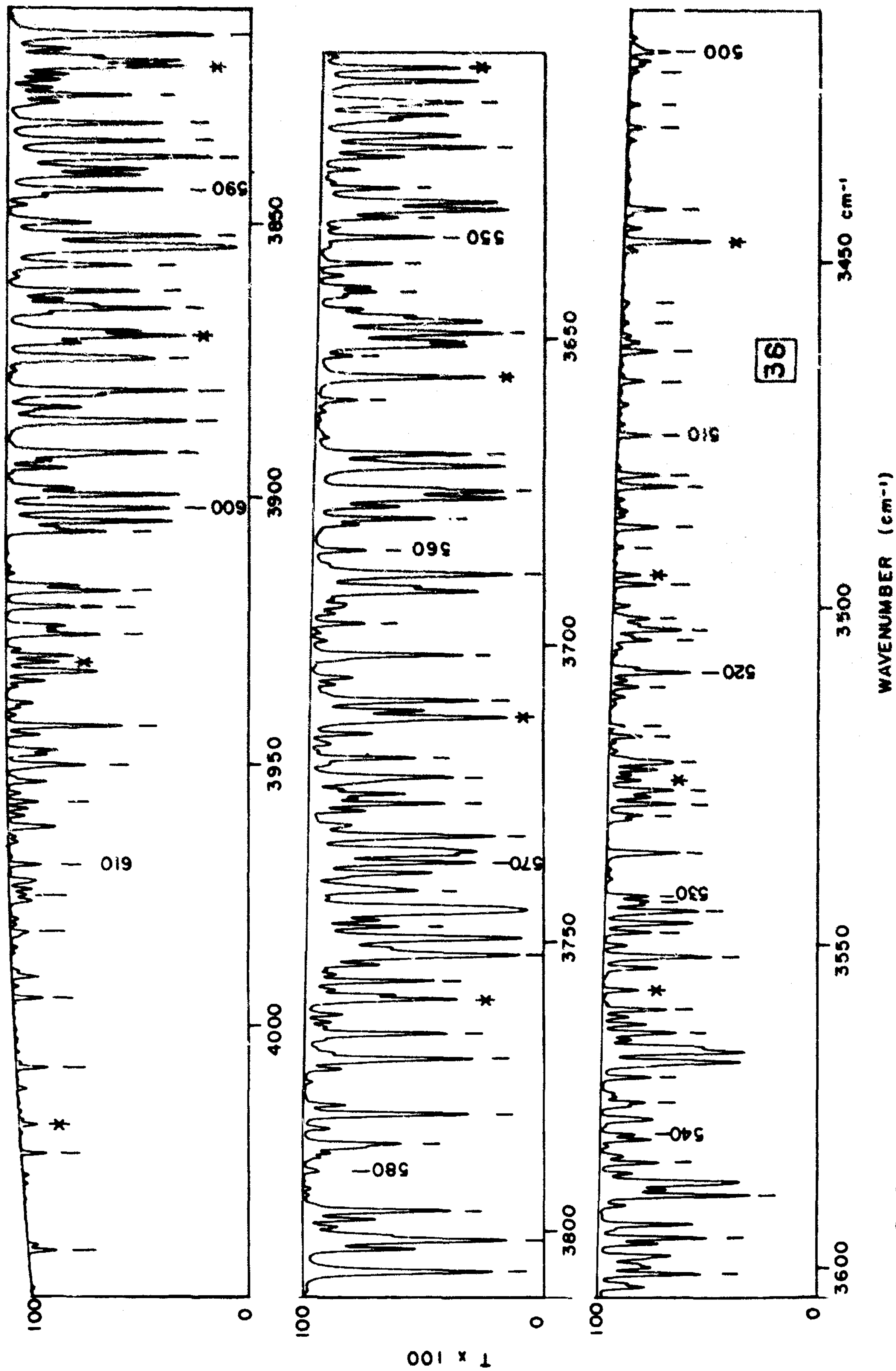

100
0
T x 100
WAVENUMBER (cm-1)
3850
3900
3950
4000
3650
3700
3750
3800
3450 cm-1
3500
3550
3600
590
600
610
550
560
570
580
500
510
520
530
540
36

Fig. 6-2

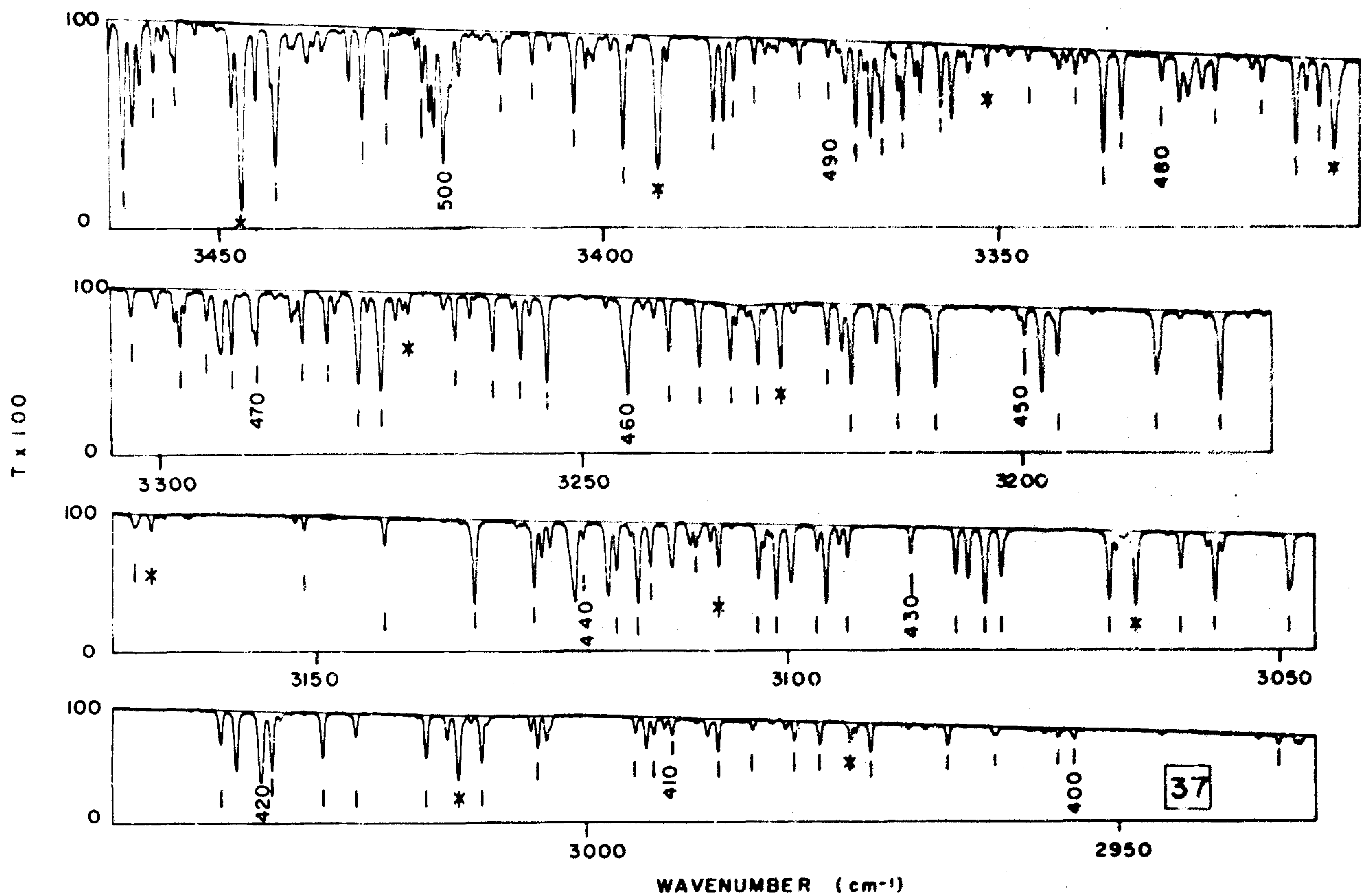

100
0
T x 100
3450
3400
3350
3300
3250
3200
3150
3100
3050
3000
2950
500
490
480
470
460
450
440
430
420
410
400
WAVENUMBER (cm⁻¹)
37

Fig. 6-1

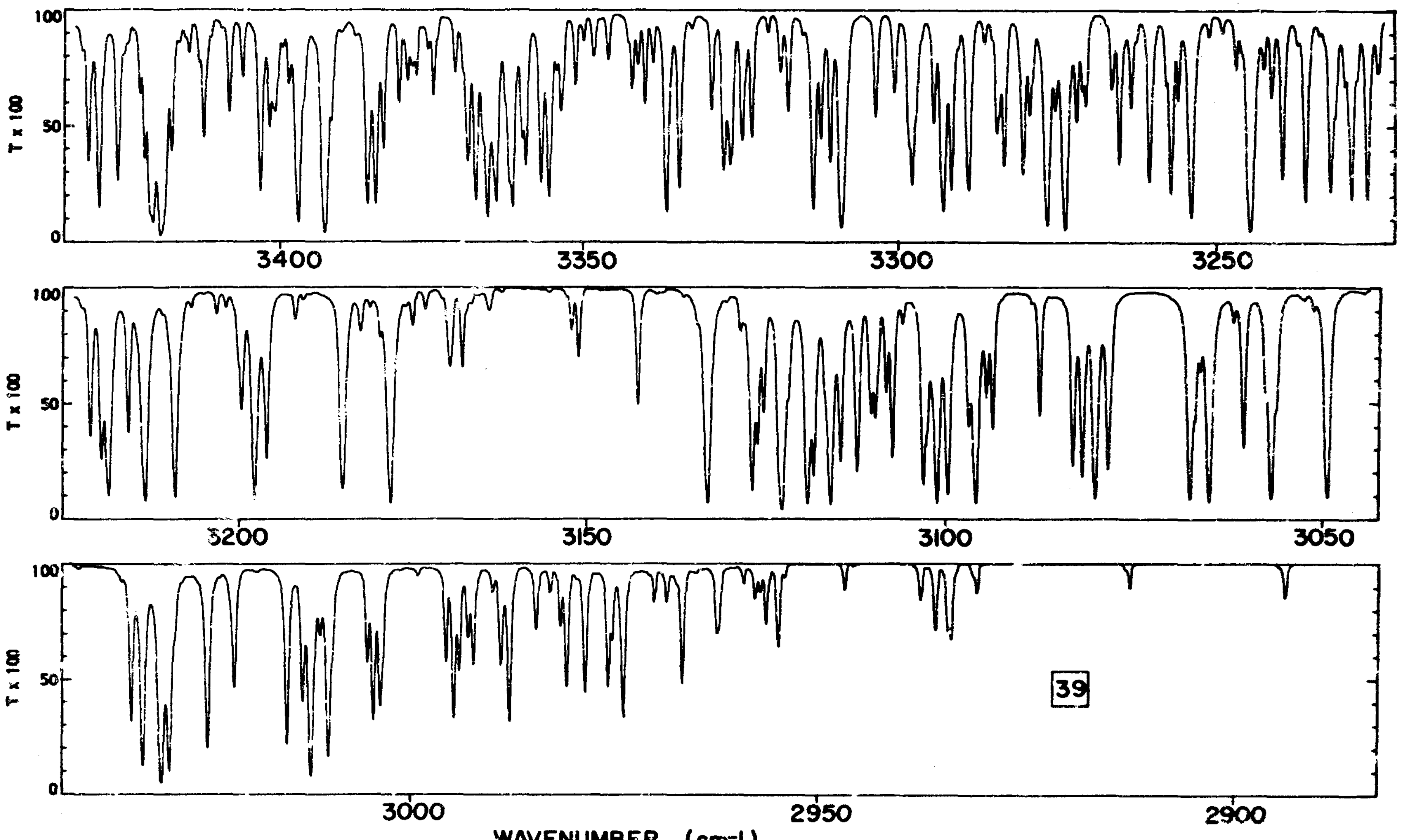
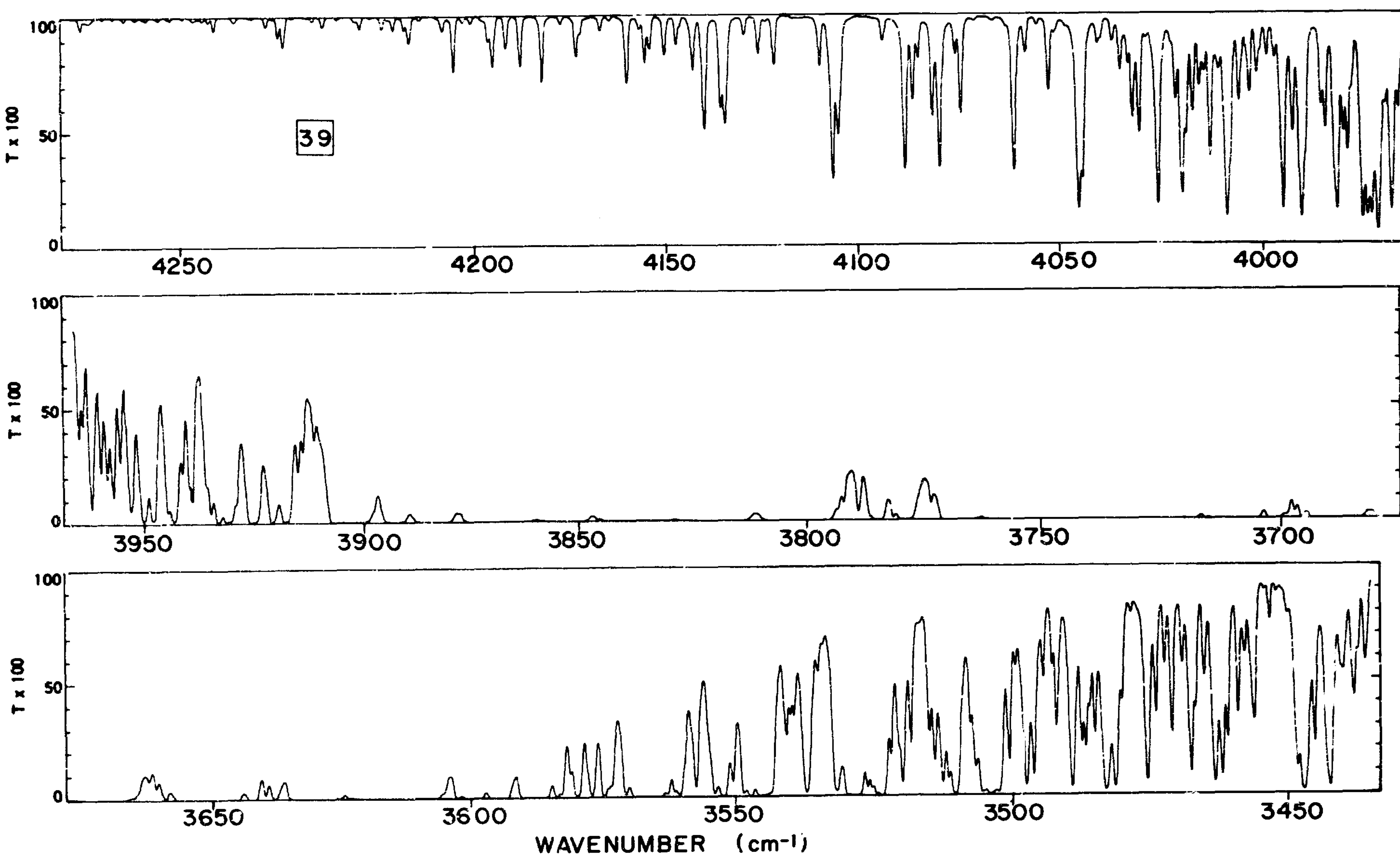

T x 100
100
50
0
3400
3350
3300
3250
3200
3150
3100
3050
3000
2950
2900
39
WAVENUMBER (cm⁻¹)

Fig. 6-3 (Cont'd)



39
T x 100
100
50
0
4250
4200
4150
4100
4050
4000
3950
3900
3850
3800
3750
3700
3650
3600
3550
3500
3450
WAVENUMBER (cm-1)

Fig. 6-3

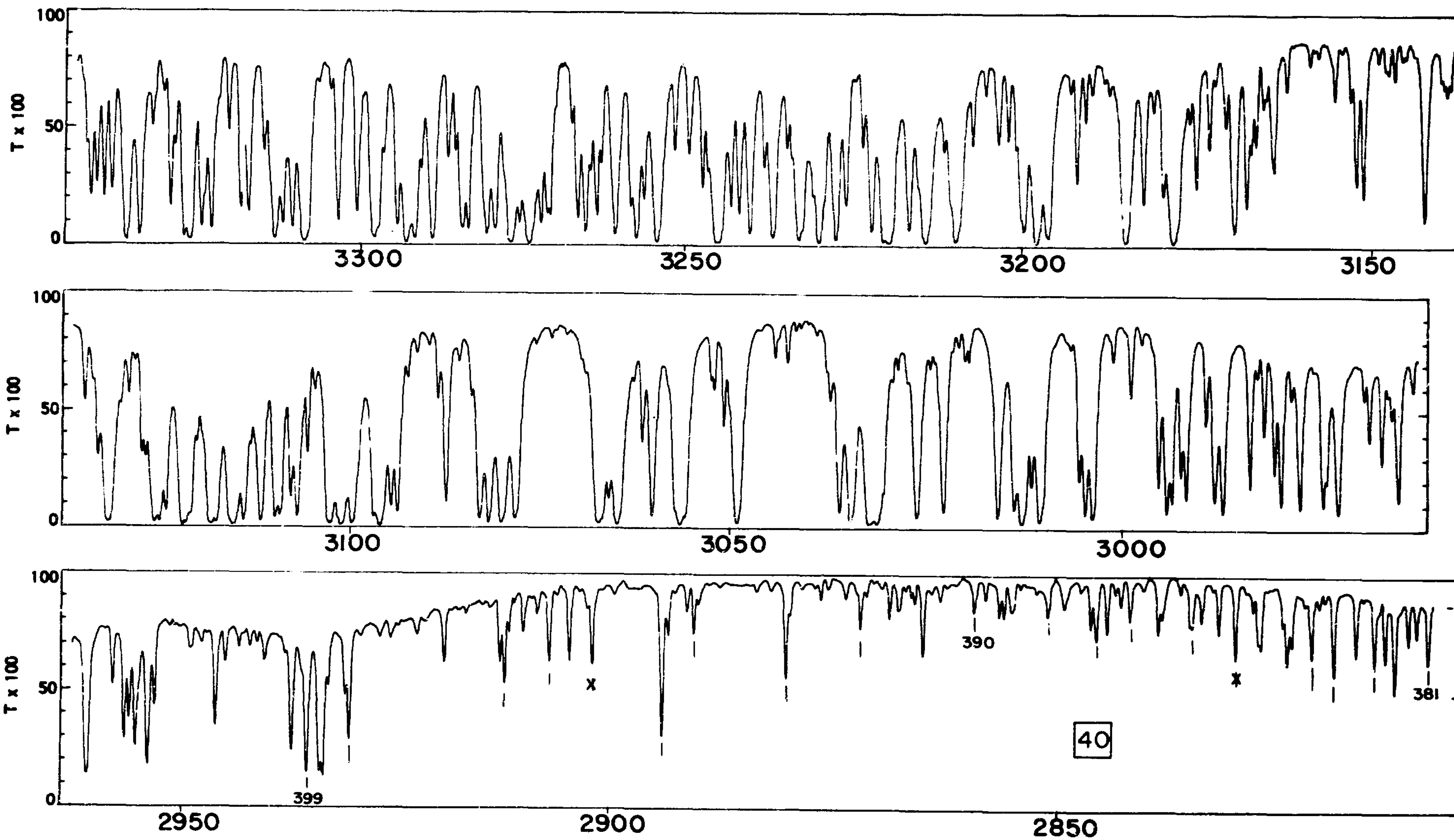


Fig. 6-4 (Cont'd) WAVENUMBER (cm⁻¹)

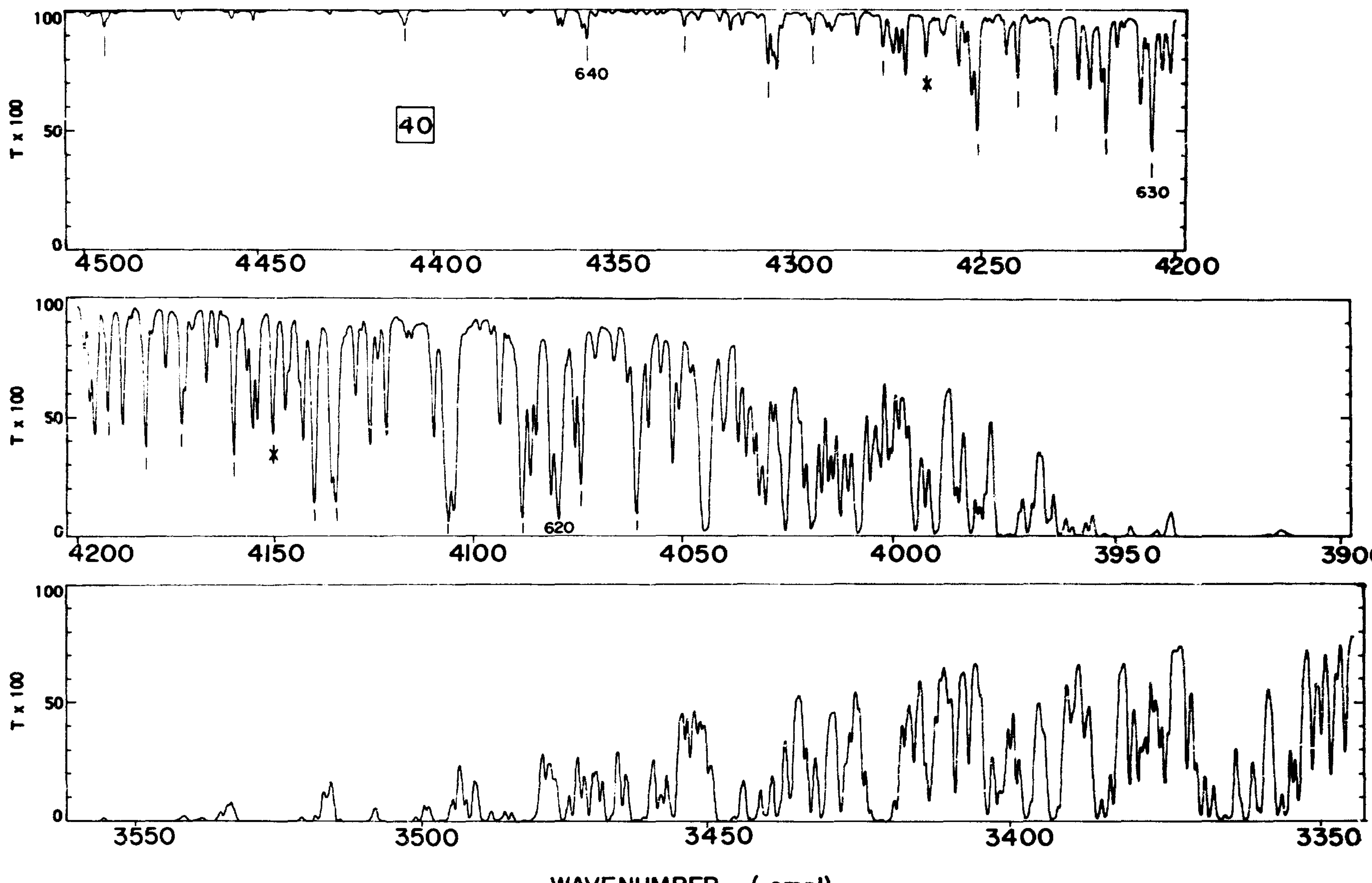
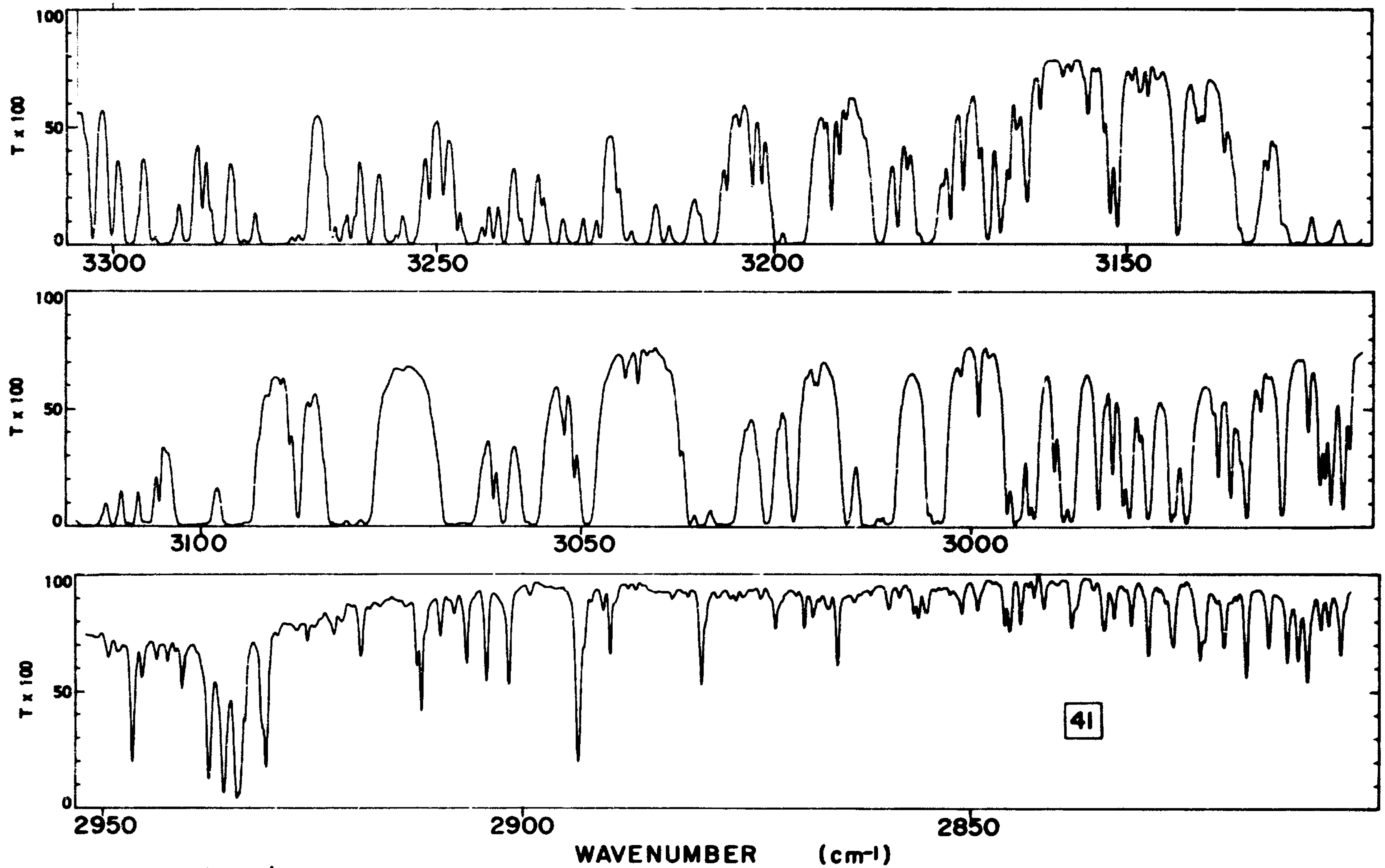

T x 100
100
50
0
4500
4450
4400
4350
4300
4250
4200
640
630
40
4150
4100
4050
4000
3950
3900
620
3550
3500
3450
3400
3350
WAVENUMBER (cm-1)

Fig. 6-4



100
50
0
T x 100
3300
3250
3200
3150
3100
3050
3000
2950
2900
2850
41
WAVENUMBER (cm-1)

Fig. 6-5 (Cont'd)

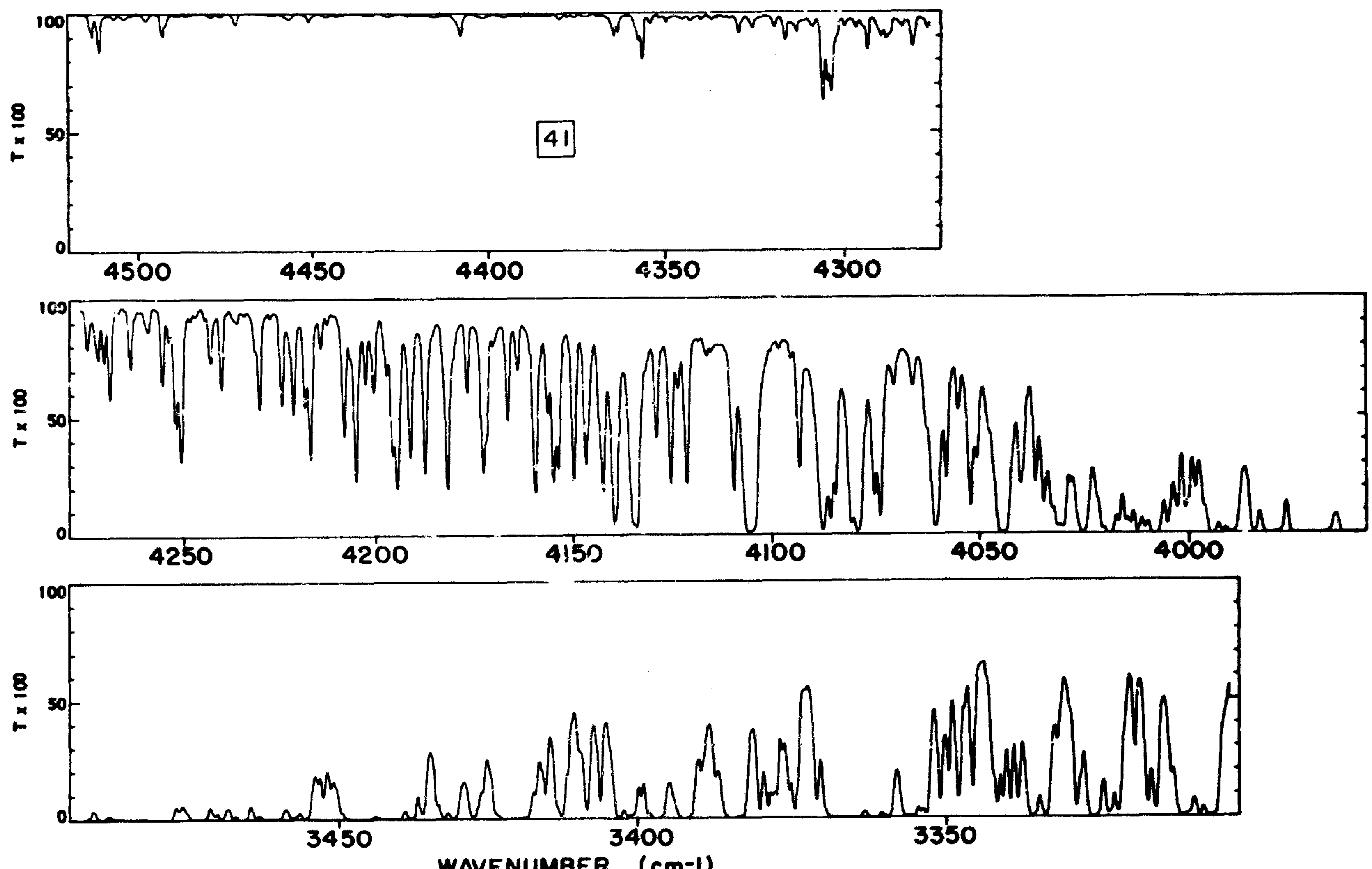

41
T x 100
100
50
0
4500
4450
4400
4350
4300
4250
4200
4150
4100
4050
4000
3450
3400
3350
WAVENUMBER (cm-1)

Fig. 6-5

Table 6-2

Table 6-2 (Cont'd)

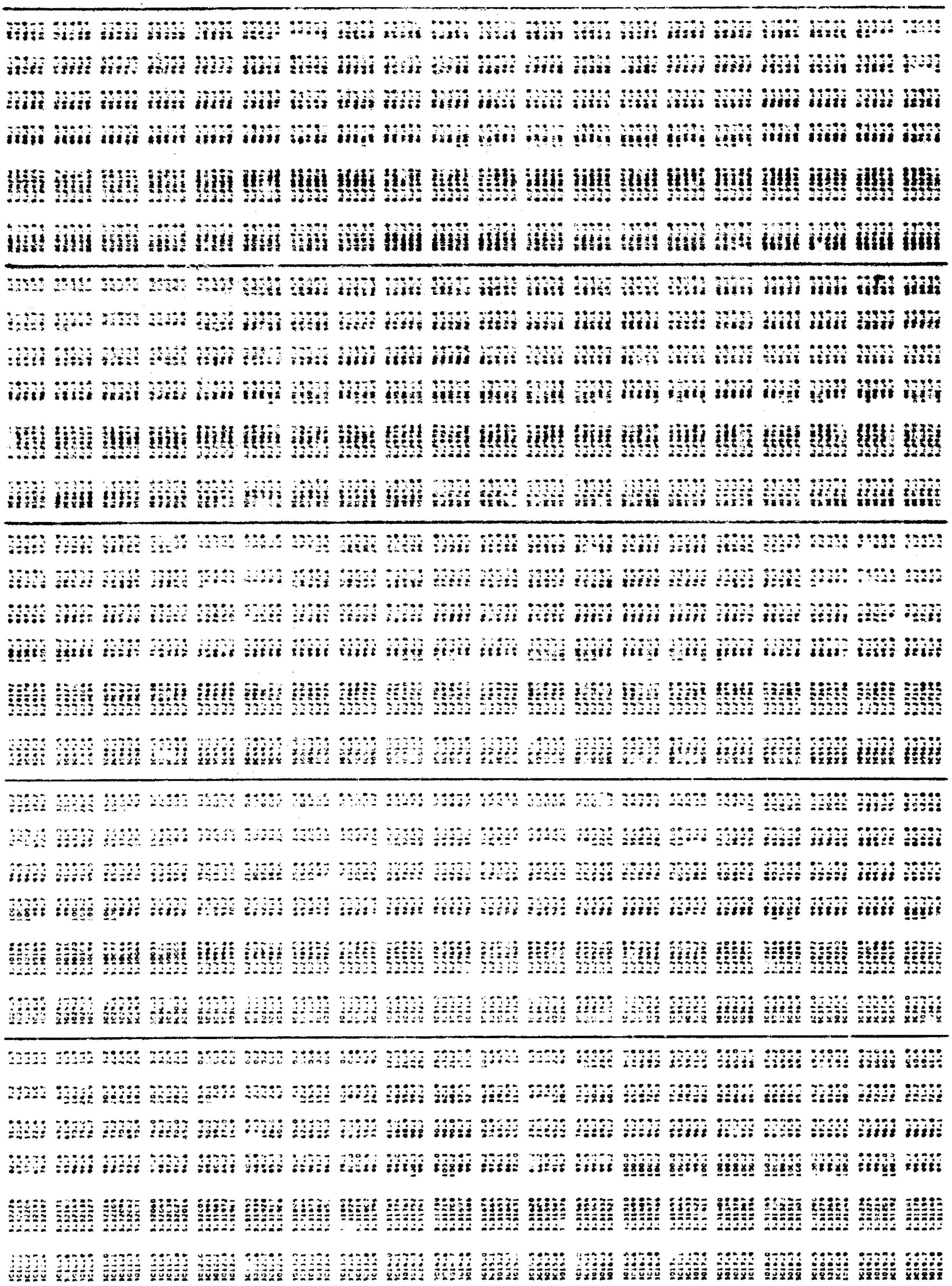


Table 6-2 (Cont'd)

Table 6-2 (Cont'd)

Sam. No.		37	39	40	41
p(atm)		7.37 x 10[illegible]	9.67 x 10[illegible]	2.01 x 10[illegible]	2.00 x 10[illegible]
P_e(atm)		3.32 x 10[illegible]	9.89 x 10[illegible]	2.80 x 10[illegible]	9.76 x 10[illegible]
u(gm/cm²)		1.80 x 10[illegible]	6.67 x 10[illegible]	1.19 x 10[illegible]	1.38 x 10[illegible]
ν (cm⁻¹)	λ (micron)	T x 100	T x 100	T x 100	T x 100
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

3195.0	3.12989	99.4	92.4	60.3	23.6
3195.1	3.12979	99.6	91.2	56.5	19.8
3195.2	3.12969	98.5	89.9	51.9	15.8
3195.3	3.12960	98.5	88.0	46.8	11.6
3195.4	3.12950	98.8	85.7	43.5	6.8
3195.5	3.12940	97.9	81.6	36.2	5.6
3195.6	3.12930	97.7	76.5	28.4	3.9
3195.7	3.12920	95.8	68.9	21.4	2.5
3195.8	3.12911	90.3	59.8	15.9	1.6
3195.9	3.12901	79.7	49.1	7.9	0.9
3196.0	3.12891	70.1	36.8	4.5	0.6
3196.1	3.12881	67.1	28.5	3.6	0.6
3196.2	3.12872	72.1	27.4	3.8	0.6
3196.3	3.12862	81.9	34.1	4.3	0.6
3196.4	3.12852	89.9	41.9	5.1	0.6
3196.5	3.12842	91.7	52.2	5.9	0.6
3196.6	3.12832	92.2	59.4	6.6	0.6
3196.7	3.12823	93.2	63.1	10.2	0.6
3196.8	3.12813	94.7	66.1	13.5	0.6
3196.9	3.12803	96.5	68.4	16.7	0.6
3197.0	3.12793	96.7	69.3	18.1	0.6
3197.1	3.12783	96.1	67.5	16.1	0.6
3197.2	3.12774	95.6	63.6	11.9	0.6
3197.3	3.12764	94.3	58.1	9.4	0.6
3197.4	3.12754	91.8	49.9	6.8	0.6
3197.5	3.12744	87.2	40.8	4.0	0.5
3197.6	3.12735	76.8	31.5	2.7	0.3
3197.7	3.12725	59.7	22.0	1.9	0.3
3197.8	3.12715	45.9	12.5	1.4	0.3
3197.9	3.12705	43.8	8.9	1.2	0.2
3198.0	3.12695	53.7	9.8	1.5	0.2
3198.1	3.12686	68.9	16.5	1.9	0.2
3198.2	3.12676	82.3	23.1	3.5	0.2
3198.3	3.12666	90.0	35.0	7.1	0.3
3198.4	3.12656	93.6	47.6	11.2	0.5
3198.5	3.12647	95.7	59.0	18.7	0.7
3198.6	3.12637	96.1	66.6	23.2	2.1
3198.7	3.12627	97.6	72.5	27.0	3.3
3198.8	3.12617	98.6	76.5	30.6	4.2
3198.9	3.12607	98.3	79.1	33.8	4.7
3199.0	3.12598	97.9	80.6	35.7	4.5
3199.1	3.12588	97.7	80.9	32.1	3.6
3199.2	3.12578	97.6	79.3	26.0	2.6
3199.3	3.12568	96.7	76.2	19.7	1.7
3199.4	3.12559	95.1	71.6	14.2	1.4
3199.5	3.12549	90.7	63.9	10.3	0.7
3199.6	3.12539	84.1	55.7	7.5	0.6
3199.7	3.12529	80.9	49.7	6.3	0.5
3199.8	3.12520	82.7	47.7	6.7	0.4
3199.9	3.12510	86.0	50.2	8.3	0.5
3200.0	3.12500	92.2	56.8	10.5	0.9
3200.1	3.12490	92.7	63.8	11.3	1.5
3200.2	3.12480	91.3	66.1	12.2	2.2
3200.3	3.12471	91.5	67.3	16.9	4.2
3200.4	3.12461	93.8	71.6	24.7	4.9
3200.5	3.12451	96.2	77.7	32.8	11.8
3200.6	3.12441	98.1	83.1	40.4	15.9
3200.7	3.12432	98.8	86.9	42.7	17.6
3200.8	3.12422	98.7	89.3	41.7	20.1
3200.9	3.12412	98.7	92.5	47.1	23.6
3201.0	3.12402	98.8	91.5	47.1	27.9
3201.1	3.12393	96.5	92.6	55.6	32.6
3201.2	3.12383	98.5	93.2	62.9	37.3
3201.3	3.12373	99.6	94.2	66.1	40.2
3201.4	3.12363	97.6	94.9	68.2	42.2
3201.5	3.12354	99.7	95.3	69.0	43.2
3201.6	3.12344	99.5	95.5	68.0	42.7
3201.7	3.12334	99.7	95.4	63.7	39.5
3201.8	3.12324	99.7	94.6	56.8	33.1
3201.9	3.12315	98.7	93.5	49.8	27.5
3202.0	3.12305	97.6	92.3	44.0	26.3
3202.1	3.12295	97.6	91.4	47.6	27.7
3202.2	3.12285	98.1	91.6	54.0	33.3
3202.3	3.12276	98.4	91.0	62.5	41.3
3202.4	3.12266	98.8	94.4	68.4	48.1
3202.5	3.12256	99.7	95.4	71.2	50.9
3202.6	3.12246	99.5	96.1	72.6	51.7
3202.7	3.12237	99.2	96.3	72.8	51.7
3202.8	3.12227	99.2	96.7	71.7	50.7
3202.9	3.12217	99.3	96.6	68.8	46.5
3203.0	3.12207	99.1	96.4	63.1	44.2
3203.1	3.12198	99.0	95.8	58.3	38.2
3203.2	3.12188	97.9	94.6	51.8	31.7
3203.3	3.12178	97.2	92.1	47.0	26.2
3203.4	3.12168	96.2	89.5	44.6	24.6
3203.5	3.12159	96.4	88.6	44.7	27.2
3203.6	3.12149	97.3	89.1	47.6	32.7
3203.7	3.12139	97.9	90.8	51.9	37.4
3203.8	3.12129	98.0	92.9	57.4	42.2
3203.9	3.12120	98.3	94.6	62.8	47.1
3204.0	3.12110	99.1	95.7	67.2	51.5
3204.1	3.12100	98.9	96.8	71.7	54.6
3204.2	3.12090	98.7	96.8	74.2	56.4
3204.3	3.12081	99.3	97.2	75.3	57.2
3204.4	3.12071	98.8	97.3	75.8	56.8
3204.5	3.12061	98.8	97.4	75.9	58.4
3204.6	3.12051	98.7	97.5	75.9	56.9
3204.7	3.12042	98.3	97.6	76.3	56.6
3204.8	3.12032	98.7	97.7	76.3	57.9
3204.9	3.12022	99.0	97.6	75.6	56.1
3213.5	3.11187	95.4	56.1	11.6	1.0
3213.6	3.11177	94.3	46.2	8.5	0.7
3213.7	3.11168	81.1	34.2	6.1	0.4
3213.8	3.11158	85.4	23.7	3.9	0.4
3213.9	3.11148	74.2	15.9	2.3	0.1
3214.0	3.11139	57.6	9.9	1.7	0.1
3214.1	3.11129	44.5	7.7	1.6	0.1
3214.2	3.11119	41.5	9.3	1.5	0.2
3214.3	3.11110	50.2	13.4	1.9	0.2
3214.4	3.11100	65.3	18.6	2.8	0.3
3214.5	3.11090	79.0	24.0	3.6	0.4
3214.6	3.11081	87.6	31.3	4.9	0.6
3214.7	3.11071	91.2	41.3	7.7	0.9
3214.8	3.11061	93.6	51.8	12.0	1.3
3214.9	3.11052	95.1	59.4	16.6	1.6
3215.0	3.11042	96.7	66.2	21.8	2.0
3215.1	3.11032	97.3	71.6	24.1	2.5
3215.2	3.11023	97.2	75.0	24.9	3.2
3215.3	3.11013	97.0	77.5	25.9	4.2
3215.4	3.11003	96.8	79.3	29.0	5.4
3215.5	3.10994	97.5	81.1	34.2	7.1
3215.6	3.10984	98.5	82.8	39.1	7.9
3215.7	3.10974	98.9	84.2	41.5	7.7
3215.8	3.10965	98.9	84.5	41.8	6.6
3215.9	3.10955	98.4	83.8	40.2	4.9
3216.0	3.10945	98.3	81.4	35.7	3.5
3216.1	3.10936	97.8	76.4	29.4	2.5
3216.2	3.10926	96.1	69.1	23.2	1.7
3216.3	3.10916	91.4	60.2	17.4	1.4
3216.4	3.10907	85.4	49.4	11.8	1.0
3216.5	3.10897	75.9	38.5	7.8	1.2
3216.6	3.10887	73.0	35.9	7.1	1.5
3216.7	3.10878	79.4	47.7	7.9	2.0
3216.8	3.10868	86.3	58.7	15.3	3.2
3216.9	3.10858	94.0	69.8	21.7	5.2
3217.0	3.10849	97.0	78.4	31.3	7.5
3217.1	3.10839	98.1	83.1	40.5	10.1
3217.2	3.10829	98.5	86.1	46.2	13.0
3217.3	3.10820	99.1	87.7	49.5	14.6
3217.4	3.10810	99.5	88.4	52.3	15.9
3217.5	3.10800	98.6	88.9	53.5	16.6
3217.6	3.10791	98.4	89.3	53.9	16.7
3217.7	3.10781	99.5	89.4	54.1	16.4
3217.8	3.10771	98.9	89.5	53.5	15.7
3217.9	3.10762	98.8	89.3	51.9	14.3
3218.0	3.10752	98.6	88.7	49.7	13.0
3218.1	3.10742	98.2	87.8	47.4	10.8
3218.2	3.10733	97.8	86.6	44.7	8.2
3218.3	3.10723	97.7	84.8	41.5	6.0
3218.4	3.10713	97.7	81.5	38.6	4.5
3218.5	3.10704	97.2	77.3	31.0	3.2
3218.6	3.10694	95.8	72.6	22.2	2.1
3218.7	3.10684	94.6	66.7	14.0	1.4
3218.8	3.10675	93.3	59.5	8.5	0.9
3218.9	3.10665	92.1	52.6	5.7	0.4
3219.0	3.10655	89.4	45.7	4.4	0.4
3219.1	3.10646	82.4	36.6	3.2	0.3
3219.2	3.10636	69.3	25.6	1.8	0.1
3219.3	3.10627	53.8	17.2	1.4	0.1
3219.4	3.10617	46.3	12.3	1.2	0.1
3219.5	3.10607	51.0	10.4	1.2	0.1
3219.6	3.10598	65.7	12.3	1.2	0.1
3219.7	3.10588	79.6	16.1	1.4	0.1
3219.8	3.10578	87.0	21.8	1.7	0.1
3219.9	3.10569	90.0	31.5	1.9	0.1
3220.0	3.10559	90.5	39.0	2.2	0.1
3220.1	3.10549	89.4	42.0	2.5	0.1
3220.2	3.10540	85.3	40.7	2.5	0.1
3220.3	3.10530	76.8	36.0	1.8	0.2
3220.4	3.10520	69.2	29.7	2.0	0.4
3220.5	3.10511	70.1	26.0	3.4	0.6
3220.6	3.10501	76.9	27.7	6.4	1.0
3220.7	3.10492	86.1	35.4	10.5	1.3
3220.8	3.10482	93.4	47.7	18.9	2.0
3220.9	3.10472	96.2	62.3	26.0	3.2
3221.0	3.10463	97.7	72.9	31.4	4.4
3221.1	3.10453	98.7	78.4	34.8	5.2
3221.2	3.10443	98.1	81.1	37.0	5.4
3221.3	3.10434	97.8	82.1	37.6	5.2
3221.4	3.10424	98.2	81.8	36.3	4.3
3221.5	3.10414	98.1	80.3	32.3	3.0
3221.6	3.10405	96.8	76.5	25.6	2.3
3221.7	3.10395	94.0	71.1	17.8	1.9
3221.8	3.10385	89.1	62.9	11.1	1.0
3221.9	3.10376	79.7	53.1	7.8	1.5
3222.0	3.10366	73.3	43.4	6.4	1.7
3222.1	3.10357	75.1	36.7	7.0	2.2
3222.2	3.10347	82.1	36.1	11.5	2.8
3222.3	3.10337	89.6	41.7	18.3	4.2
3222.4	3.10328	94.9	54.0	25.9	6.6
3222.5	3.10318	97.4	68.0	35.9	9.6
3222.6	3.10308	97.7	78.3	43.8	13.6
3222.7	3.10299	98.5	84.2	47.1	18.2
3222.8	3.10289	99.2	87.7	51.4	21.6
3222.9	3.10280	99.6	89.7	54.7	23.7
3223.0	3.10270	99.3	90.4	55.1	23.5
3223.1	3.10260	99.1	90.9	53.1	22.6
3223.2	3.10251	98.8	91.1	47.5	22.8
3223.3	3.10241	98.3	91.1	43.8	22.3
3223.4	3.10231	98.3	91.2	44.1	24.6
3232.0	3.09406	95.3	80.9	30.3	4.2
3232.1	3.09396	91.6	76.2	25.1	2.2
3232.2	3.09387	85.1	70.2	18.2	1.0
3232.3	3.09377	87.2	61.5	12.6	0.6
3232.4	3.09368	89.5	57.9	9.0	0.5
3232.5	3.09358	92.0	56.4	6.8	0.4
3232.6	3.09349	91.7	55.7	6.0	0.3
3232.7	3.09339	86.7	53.3	5.3	0.2
3232.8	3.09329	77.6	51.0	4.3	0.2
3232.9	3.09320	66.0	45.6	3.2	0.2
3233.0	3.09310	63.5	36.4	2.6	0.2
3233.1	3.09301	70.0	30.1	2.7	0.2
3233.2	3.09291	81.9	25.5	3.3	0.2
3233.3	3.09282	91.2	23.0	5.0	0.5
3233.4	3.09272	96.1	28.5	9.0	0.9
3233.5	3.09262	98.0	40.7	13.3	1.7
3233.6	3.09253	99.0	54.8	20.6	4.1
3233.7	3.09243	98.9	66.6	27.6	6.4
3233.8	3.09234	98.7	75.8	34.1	7.5
3233.9	3.09224	98.7	82.4	36.9	6.9
3234.0	3.09215	99.1	85.0	37.3	10.6
3234.1	3.09205	99.6	86.6	38.1	13.3
3234.2	3.09195	99.7	87.2	41.5	17.0
3234.3	3.09186	99.6	88.2	47.2	19.3
3234.4	3.09176	99.1	89.5	51.1	18.8
3234.5	3.09167	98.5	90.1	48.9	17.4
3234.6	3.09157	98.6	90.3	44.0	16.7
3234.7	3.09148	99.3	89.8	41.6	17.2
3234.8	3.09138	99.9	89.4	43.7	19.4
3234.9	3.09129	99.9	89.9	51.1	25.6
3235.0	3.09119	99.9	90.8	57.3	27.8
3235.1	3.09109	100.3	92.0	61.1	29.6
3235.2	3.09100	100.3	92.6	63.0	29.2
3235.3	3.09090	100.3	93.1	63.0	27.4
3235.4	3.09081	100.4	93.1	62.0	26.9
3235.5	3.09071	100.4	93.6	60.8	23.5
3235.6	3.09062	99.8	92.5	58.8	20.4
3235.7	3.09052	99.7	91.5	55.2	16.5
3235.8	3.09043	99.5	90.3	50.7	13.0
3235.9	3.09033	98.9	88.4	47.1	9.7
3236.0	3.09023	98.2	85.2	41.4	6.8
3236.1	3.09014	97.4	80.9	31.7	4.8
3236.2	3.09004	95.6	76.1	22.6	2.9
3236.3	3.08995	90.9	69.8	14.9	1.7
3236.4	3.08985	82.1	60.9	8.6	1.3
3236.5	3.08976	69.9	48.3	5.4	1.9
3236.6	3.08966	60.3	37.6	4.3	0.7
3236.7	3.08957	58.9	27.2	3.6	0.6
3236.8	3.08947	67.2	20.3	4.2	0.8
3236.9	3.08938	81.7	18.9	4.4	1.1
3237.0	3.08928	91.1	24.2	7.5	1.4
3237.1	3.08918	96.9	35.5	14.2	1.8
3237.2	3.08909	97.0	50.5	21.9	2.6
3237.3	3.08899	98.0	64.3	28.8	5.0
3237.4	3.08890	98.3	73.3	34.9	7.9
3237.5	3.08880	98.5	80.2	40.4	9.3
3237.6	3.08871	99.0	83.9	43.6	10.6
3237.7	3.08861	98.6	85.6	42.8	10.4
3237.8	3.08852	98.3	86.6	38.8	10.1
3237.9	3.08842	97.4	85.8	35.1	10.7
3238.0	3.08833	97.2	85.1	33.9	12.8
3238.1	3.08823	98.1	85.2	37.2	15.1
3238.2	3.08814	98.9	88.3	44.5	20.0
3238.3	3.08804	99.0	88.2	53.7	25.3
3238.4	3.08794	98.2	90.5	61.0	28.8
3238.5	3.08785	99.7	92.0	64.7	31.1
3238.6	3.08775	99.8	92.8	65.6	32.0
3238.7	3.08766	99.2	93.2	65.6	31.9
3238.8	3.08756	99.4	93.5	65.2	31.3
3238.9	3.08747	99.5	93.5	64.4	30.2
3239.0	3.08737	99.2	93.3	62.9	28.0
3239.1	3.08728	98.8	93.0	61.1	26.2
3239.2	3.08718	99.1	92.3	58.4	22.9
3239.3	3.08709	99.7	91.2	55.7	19.0
3239.4	3.08699	98.7	89.4	49.9	14.6
3239.5	3.08690	97.8	87.0	41.5	10.2
3239.6	3.08680	97.4	83.9	35.6	6.8
3239.7	3.08671	95.9	79.6	27.1	4.4
3239.8	3.08661	91.3	73.1	17.3	2.7
3239.9	3.08652	82.4	63.2	9.8	1.6
3240.0	3.08642	71.4	51.2	5.8	0.9
3240.1	3.08632	66.1	39.9	5.1	0.2
3240.2	3.08623	70.9	31.7	5.6	0.4
3240.3	3.08613	80.5	28.4	8.5	1.1
3240.4	3.08604	89.1	31.2	16.0	2.0
3240.5	3.08594	94.4	40.4	24.2	3.6
3240.6	3.08585	96.7	57.3	32.2	7.1
3240.7	3.08575	97.9	71.5	39.8	10.2
3240.8	3.08566	98.1	80.2	46.1	12.6
3240.9	3.08556	98.9	84.6	50.2	14.0
3241.0	3.08547	98.6	86.8	52.3	15.2
3241.1	3.08537	98.5	87.8	49.3	14.8
3241.2	3.08528	98.4	88.1	44.4	12.6
3241.3	3.08518	98.0	87.6	38.6	9.8
3241.4	3.08509	98.1	85.6	31.7	7.6
3241.5	3.08499	96.1	82.1	24.5	5.8
3241.6	3.08490	92.5	75.3	19.1	2.9
3241.7	3.08480	89.1	69.6	16.6	2.5
3241.8	3.08471	87.7	64.7	15.2	3.6
3241.9	3.08461	89.1	63.2	19.6	4.9
3250.5	3.07645	99.5	97.0	75.7	50.0
3250.6	3.07636	99.4	97.0	74.9	48.8
3250.7	3.07626	99.6	96.9	73.6	46.3
3250.8	3.07617	99.3	96.6	71.5	42.4
3250.9	3.07607	99.1	95.9	69.2	37.4
3251.0	3.07598	99.5	94.3	65.0	32.5
3251.1	3.07588	99.5	92.3	58.5	25.9
3251.2	3.07579	99.1	90.2	50.6	21.2
3251.3	3.07569	98.7	89.0	43.8	19.6
3251.4	3.07560	98.4	88.7	41.0	21.2
3251.5	3.07550	97.5	89.6	43.6	25.1
3251.6	3.07541	97.2	91.5	51.8	29.9
3251.7	3.07531	97.4	93.0	60.9	34.3
3251.8	3.07522	98.6	93.6	65.6	36.1
3251.9	3.07513	98.6	94.0	67.7	36.1
3252.0	3.07503	98.8	94.2	68.3	35.3
3252.1	3.07494	99.1	94.2	67.5	33.7
3252.2	3.07484	99.2	93.9	66.2	31.2
3252.3	3.07475	99.3	93.5	65.1	28.2
3252.4	3.07465	99.5	93.2	63.2	25.7
3252.5	3.07456	99.9	92.3	61.6	22.0
3252.6	3.07446	99.2	91.6	59.5	19.2
3252.7	3.07437	99.1	90.7	56.1	16.0
3252.8	3.07427	99.6	89.0	49.9	12.7
3252.9	3.07418	99.3	86.9	44.3	9.9
3253.0	3.07409	98.8	85.0	38.0	7.4
3253.1	3.07399	98.7	82.6	35.9	5.0
3253.2	3.07390	96.5	78.7	31.7	3.4
3253.3	3.07380	98.5	71.8	26.2	2.9
3253.4	3.07371	97.5	68.2	22.0	2.6
3253.5	3.07361	96.8	62.1	17.9	1.9
3253.6	3.07352	95.1	54.8	11.0	1.0
3253.7	3.07342	92.1	45.1	6.7	0.5
3253.8	3.07333	86.0	30.3	4.6	0.3
3253.9	3.07324	74.6	21.7	2.9	0.2
3254.0	3.07314	58.0	14.9	1.8	0.2
3254.1	3.07305	46.3	11.5	1.6	0.2
3254.2	3.07295	46.0	12.0	1.7	0.2
3254.3	3.07286	61.5	16.2	2.1	0.3
3254.4	3.07276	75.3	23.9	3.8	0.5
3254.5	3.07267	84.7	35.6	6.6	1.1
3254.6	3.07257	89.6	46.9	10.5	1.6
3254.7	3.07248	92.3	56.9	15.2	3.1
3254.8	3.07239	94.8	68.9	20.2	5.0
3254.9	3.07229	95.6	76.1	26.7	7.1
3255.0	3.07220	96.3	81.2	34.8	8.9
3255.1	3.07210	96.9	84.2	39.9	10.2
3255.2	3.07201	97.3	85.8	45.9	11.1
3255.3	3.07191	97.3	86.8	46.5	11.7
3255.4	3.07182	97.0	87.1	48.2	11.5
3255.5	3.07172	97.1	86.2	47.8	10.2
3255.6	3.07163	97.3	84.5	46.2	7.9
3255.7	3.07154	96.9	79.6	42.8	5.1
3255.8	3.07144	96.6	72.7	36.2	3.8
3255.9	3.07135	90.9	65.8	26.2	2.9
3256.0	3.07125	88.2	61.8	22.6	2.8
3256.1	3.07116	87.2	64.1	19.6	3.1
3256.2	3.07106	89.9	71.5	21.4	3.6
3256.3	3.07097	93.6	77.2	26.3	3.7
3256.4	3.07088	95.6	77.6	30.7	3.3
3256.5	3.07078	96.0	72.4	32.9	1.9
3256.6	3.07069	96.1	61.9	32.7	1.4
3256.7	3.07059	95.7	49.9	29.1	1.2
3256.8	3.07050	93.6	41.1	25.3	1.1
3256.9	3.07040	89.4	32.8	18.6	1.0
3257.0	3.07031	78.9	25.4	8.8	0.9
3257.1	3.07022	68.8	22.3	4.4	0.9
3257.2	3.07012	61.3	26.1	3.2	0.9
3257.3	3.07003	61.7	36.6	3.2	0.9
3257.4	3.06993	73.1	53.7	4.2	0.9
3257.5	3.06984	84.4	63.6	7.1	1.2
3257.6	3.06974	91.1	68.0	10.1	1.4
3257.7	3.06965	94.6	68.2	13.2	1.6
3257.8	3.06956	95.3	67.6	16.0	2.1
3257.9	3.06946	93.9	68.9	19.7	3.1
3258.0	3.06937	92.0	73.7	18.8	5.1
3258.1	3.06927	91.2	79.9	17.4	8.7
3258.2	3.06918	92.5	85.5	18.3	13.5
3258.3	3.06908	94.5	88.9	24.1	19.4
3258.4	3.06899	96.3	90.9	30.9	22.5
3258.5	3.06890	97.7	92.0	37.4	25.2
3258.6	3.06880	98.1	92.7	53.0	27.3
3258.7	3.06871	97.9	93.0	61.6	29.0
3258.8	3.06861	98.1	93.1	63.3	29.7
3258.9	3.06852	96.1	95.2	64.3	29.7
3259.0	3.06843	98.1	93.0	64.5	29.3
3259.1	3.06833	97.8	92.4	64.3	28.3
3259.2	3.06824	97.6	91.4	63.7	26.3
3259.3	3.06814	98.1	90.3	62.7	23.1
3259.4	3.06805	98.3	88.8	57.8	19.9
3259.5	3.06796	98.7	87.2	52.4	16.2
3259.6	3.06786	97.4	85.3	45.2	12.4
3259.7	3.06777	97.6	87.9	40.2	9.2
3259.8	3.06767	97.4	79.3	36.6	7.3
3259.9	3.06758	96.4	74.8	31.4	5.1
3260.0	3.06748	95.0	63.1	24.8	3.6
3260.1	3.06739	92.5	61.5	22.3	2.4
3260.2	3.06730	84.5	53.3	13.2	1.2
3260.3	3.06720	72.0	42.9	7.8	0.8
3260.4	3.06711	66.0	33.4	5.0	0.2
3269.0	3.05904	100.1	97.3	75.9	51.4
3269.1	3.05895	99.9	97.3	75.3	49.8
3269.2	3.05885	99.7	97.1	74.6	47.4
3269.3	3.05876	99.6	96.4	73.3	44.2
3269.4	3.05867	99.8	95.7	70.1	40.4
3269.5	3.05857	99.3	95.2	64.1	36.7
3269.6	3.05848	99.1	94.7	61.3	33.4
3269.7	3.05838	99.4	93.9	58.3	30.3
3269.8	3.05829	99.7	92.8	57.0	26.4
3269.9	3.05820	99.9	91.6	55.9	23.1
3270.0	3.05810	99.0	88.8	51.5	19.0
3270.1	3.05801	98.5	84.6	40.1	14.7
3270.2	3.05792	96.0	79.8	39.7	10.3
3270.3	3.05782	91.4	72.0	29.5	6.2
3270.4	3.05773	87.5	64.4	18.2	4.4
3270.5	3.05764	86.6	60.1	14.3	3.3
3270.6	3.05754	88.7	59.6	13.7	2.5
3270.7	3.05745	93.2	63.1	14.6	1.9
3270.8	3.05736	93.5	66.7	15.1	1.6
3270.9	3.05726	91.4	66.8	14.4	1.5
3271.0	3.05717	89.4	65.3	14.0	1.5
3271.1	3.05708	89.4	65.3	15.8	2.0
3271.2	3.05698	91.5	68.7	20.9	2.5
3271.3	3.05689	93.8	73.8	25.5	3.3
3271.4	3.05680	95.4	77.0	29.4	3.6
3271.5	3.05670	95.9	76.4	29.8	3.3
3271.6	3.05661	94.3	72.6	24.6	2.9
3271.7	3.05651	90.1	64.2	17.9	2.5
3271.8	3.05642	85.1	57.2	11.1	1.7
3271.9	3.05633	82.6	52.0	9.7	1.3
3272.0	3.05623	85.3	52.7	10.3	1.3
3272.1	3.05614	90.3	59.1	14.4	1.7
3272.2	3.05605	93.9	67.4	19.3	1.9
3272.3	3.05595	95.5	73.3	22.2	2.4
3272.4	3.05586	95.7	75.6	22.5	2.7
3272.5	3.05577	95.5	76.1	20.8	2.4
3272.6	3.05567	95.5	74.8	18.9	2.0
3272.7	3.05558	95.7	72.3	17.6	1.7
3272.8	3.05549	95.2	67.6	15.2	1.2
3272.9	3.05539	94.3	63.0	11.1	0.7
3273.0	3.05530	91.5	55.8	6.7	0.4
3273.1	3.05521	83.9	46.2	6.7	0.2
3273.2	3.05511	72.4	34.8	4.1	0.1
3273.3	3.05502	61.5	23.5	2.1	0.
3273.4	3.05493	52.0	14.5	1.5	0.
3273.5	3.05483	45.0	7.4	1.0	0.
3273.6	3.05474	40.3	5.5	0.8	0.
3273.7	3.05465	42.0	5.3	0.8	0.
3273.8	3.05455	56.0	7.6	1.4	0.
3273.9	3.05446	66.2	12.9	2.3	0.
3274.0	3.05437	78.7	20.1	3.4	0.
3274.1	3.05427	86.8	28.9	4.9	0.
3274.2	3.05418	91.3	39.9	6.9	0.
3274.3	3.05409	93.5	52.3	9.8	0.
3274.4	3.05399	94.3	61.0	11.4	0.
3274.5	3.05390	94.6	66.3	13.9	0.
3274.6	3.05381	95.3	69.0	16.2	0.
3274.7	3.05371	95.4	69.5	17.9	0.
3274.8	3.05362	94.8	67.6	17.9	0.
3274.9	3.05353	92.1	64.3	15.2	0.
3275.0	3.05344	89.5	60.4	12.6	0.
3275.1	3.05334	87.7	57.6	10.3	0.
3275.2	3.05325	88.5	58.0	10.3	0.
3275.3	3.05316	91.9	61.1	12.4	0.
3275.4	3.05306	94.7	64.1	14.9	0.
3275.5	3.05297	95.7	66.5	15.6	0.
3275.6	3.05288	95.7	65.1	14.5	0.
3275.7	3.05278	94.4	61.8	12.2	0.
3275.8	3.05269	91.1	54.7	9.1	0.
3275.9	3.05260	84.8	46.5	6.0	0.
3276.0	3.05250	73.4	34.6	3.7	0.
3276.1	3.05241	62.0	26.3	2.2	0.
3276.2	3.05232	52.1	17.3	1.5	0.
3276.3	3.05222	45.3	11.3	1.2	0.
3276.4	3.05213	43.2	8.3	1.1	0.
3276.5	3.05204	50.3	7.8	1.2	0.
3276.6	3.05194	62.9	9.6	1.5	0.
3276.7	3.05185	76.3	14.1	1.7	0.
3276.8	3.05176	85.9	23.3	2.3	0.
3276.9	3.05166	90.4	32.9	5.4	0.2
3277.0	3.05157	93.5	47.0	11.2	0.5
3277.1	3.05148	95.3	59.8	16.9	1.1
3277.2	3.05139	96.7	68.8	21.8	2.1
3277.3	3.05129	97.3	74.7	25.9	3.4
3277.4	3.05120	97.5	78.8	28.7	4.6
3277.5	3.05111	97.5	80.8	29.9	5.3
3277.6	3.05101	97.5	82.6	33.0	6.5
3277.7	3.05092	97.3	84.4	37.5	9.3
3277.8	3.05083	98.3	86.0	42.2	11.7
3277.9	3.05073	98.6	87.2	45.6	12.9
3278.0	3.05064	98.5	87.7	46.7	13.0
3278.1	3.05055	98.3	87.4	45.2	12.3
3278.2	3.05045	98.0	85.5	40.2	10.2
3278.3	3.05036	97.1	82.9	34.7	7.8
3278.4	3.05027	95.9	79.6	27.2	5.6
3278.5	3.05018	93.9	76.4	18.7	3.7
3278.6	3.05008	93.1	72.7	12.0	2.5
3278.7	3.04999	92.5	69.1	8.4	1.9
3278.8	3.04990	90.9	65.9	7.3	1.2
3278.9	3.04980	88.2	61.1	7.2	0.9

Table 6-2 (Cont'd)

Sam. No.		37	39	40	41
p(atm)		7.37×10^{-3}	9.67×10^{-3}	2.01×10^{-2}	2.00×10^{-2}
P_e(atm)		3.32×10^{-1}	9.89×10^{-1}	2.80×10^{-1}	9.76×10^{-1}
u(gm/cm^2)		1.80×10^{-2}	8.67×10^{-2}	1.39×10^{0}	1.38×10^{0}
ν (cm^{-1})	λ (micron)	T × 100	T × 100	T × 100	T × 100
3186.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3186.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3186.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3186.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3186.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3187.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3187.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3187.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3187.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3187.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3187.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3187.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3187.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3187.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3187.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3188.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3188.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3188.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3188.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3188.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3188.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3188.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3188.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3188.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3188.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3189.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3189.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3189.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3189.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3189.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3189.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3189.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3189.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3189.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3189.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3190.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3190.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3190.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3190.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3190.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3190.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3190.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3190.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3190.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3190.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3191.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3191.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3191.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3191.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3191.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3191.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3191.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3191.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3191.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3191.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3192.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3192.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3192.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3192.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3192.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3192.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3192.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3192.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3192.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3192.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3193.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3193.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3193.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3193.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3193.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3193.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3193.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3193.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3193.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3193.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3194.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3194.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3194.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3194.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3194.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3194.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3194.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3194.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3194.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3194.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Sam. No.		37	39	40	41
p(atm)		7.37×10^{-3}	9.67×10^{-3}	2.01×10^{-2}	2.00×10^{-2}
P_e(atm)		3.32×10^{-1}	9.89×10^{-1}	2.80×10^{-1}	9.76×10^{-1}
u(gm/cm^2)		1.80×10^{-2}	8.67×10^{-2}	1.39×10^{0}	1.38×10^{0}
ν (cm^{-1})	λ (micron)	T × 100	T × 100	T × 100	T × 100
3205.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3205.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3205.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3205.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3205.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3205.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3205.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3205.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3205.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3205.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3206.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3206.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3206.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3206.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3206.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3206.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3206.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3206.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3206.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3206.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3207.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3207.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3207.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3207.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3207.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3207.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3207.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3207.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3207.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3207.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3208.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3208.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3208.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3208.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3208.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3208.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3208.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3208.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3208.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3208.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3209.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3209.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3209.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3209.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3209.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3209.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3209.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3209.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3209.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3209.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3210.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3210.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3210.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3210.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3210.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3210.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3210.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3210.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3210.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3210.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3211.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3211.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3211.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3211.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3211.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3211.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3211.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3211.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3211.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3211.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3212.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3212.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3212.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3212.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3212.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3212.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3212.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3212.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3212.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3212.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3213.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3213.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3213.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3213.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3213.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Sam. No.		37	39	40	41
p(atm)		7.37×10^{-3}	9.67×10^{-3}	2.01×10^{-2}	2.00×10^{-2}
P_e(atm)		3.32×10^{-1}	9.89×10^{-1}	2.80×10^{-1}	9.76×10^{-1}
u(gm/cm^2)		1.80×10^{-2}	8.67×10^{-2}	1.39×10^{0}	1.38×10^{0}
ν (cm^{-1})	λ (micron)	T × 100	T × 100	T × 100	T × 100
3223.5	[illegible]	[illegible]	[illegible]	[illegible]	29.1
3223.6	[illegible]	[illegible]	[illegible]	[illegible]	35.2
3223.7	[illegible]	[illegible]	[illegible]	[illegible]	40.5
3223.8	[illegible]	[illegible]	[illegible]	[illegible]	43.1
3223.9	[illegible]	[illegible]	[illegible]	[illegible]	44.6
3224.0	[illegible]	[illegible]	[illegible]	[illegible]	45.5
3224.1	[illegible]	[illegible]	[illegible]	[illegible]	45.8
3224.2	[illegible]	[illegible]	[illegible]	[illegible]	45.8
3224.3	[illegible]	[illegible]	[illegible]	[illegible]	45.8
3224.4	[illegible]	[illegible]	[illegible]	[illegible]	45.4
3224.5	[illegible]	[illegible]	[illegible]	[illegible]	45.3
3224.6	[illegible]	[illegible]	[illegible]	[illegible]	45.2
3224.7	[illegible]	[illegible]	[illegible]	[illegible]	44.7
3224.8	[illegible]	[illegible]	[illegible]	[illegible]	43.6
3224.9	[illegible]	[illegible]	[illegible]	[illegible]	41.6
3225.0	[illegible]	[illegible]	[illegible]	[illegible]	38.4
3225.1	[illegible]	[illegible]	[illegible]	[illegible]	35.1
3225.2	[illegible]	[illegible]	[illegible]	[illegible]	30.0
3225.3	[illegible]	[illegible]	[illegible]	[illegible]	24.4
3225.4	[illegible]	[illegible]	[illegible]	[illegible]	17.1
3225.5	[illegible]	[illegible]	[illegible]	[illegible]	10.4
3225.6	[illegible]	[illegible]	[illegible]	[illegible]	5.7
3225.7	[illegible]	[illegible]	[illegible]	[illegible]	3.1
3225.8	[illegible]	[illegible]	[illegible]	[illegible]	2.6
3225.9	[illegible]	[illegible]	[illegible]	[illegible]	2.6
3226.0	[illegible]	[illegible]	[illegible]	[illegible]	3.2
3226.1	[illegible]	[illegible]	[illegible]	[illegible]	5.6
3226.2	[illegible]	[illegible]	[illegible]	[illegible]	8.0
3226.3	[illegible]	[illegible]	[illegible]	[illegible]	9.5
3226.4	[illegible]	[illegible]	[illegible]	[illegible]	9.9
3226.5	[illegible]	[illegible]	[illegible]	[illegible]	9.3
3226.6	[illegible]	[illegible]	[illegible]	[illegible]	8.0
3226.7	[illegible]	[illegible]	[illegible]	[illegible]	6.3
3226.8	[illegible]	[illegible]	[illegible]	[illegible]	4.4
3226.9	[illegible]	[illegible]	[illegible]	[illegible]	3.0
3227.0	[illegible]	[illegible]	[illegible]	[illegible]	2.1
3227.1	[illegible]	[illegible]	[illegible]	[illegible]	1.3
3227.2	[illegible]	[illegible]	[illegible]	[illegible]	0.9
3227.3	[illegible]	[illegible]	[illegible]	[illegible]	0.5
3227.4	[illegible]	[illegible]	[illegible]	[illegible]	0.4
3227.5	[illegible]	[illegible]	[illegible]	[illegible]	0.2
3227.6	[illegible]	[illegible]	[illegible]	[illegible]	0.0
3227.7	[illegible]	[illegible]	[illegible]	[illegible]	0.3
3227.8	[illegible]	[illegible]	[illegible]	[illegible]	1.1
3227.9	[illegible]	[illegible]	[illegible]	[illegible]	2.5
3228.0	[illegible]	[illegible]	[illegible]	[illegible]	4.7
3228.1	[illegible]	[illegible]	[illegible]	[illegible]	6.4
3228.2	[illegible]	[illegible]	[illegible]	[illegible]	8.7
3228.3	[illegible]	[illegible]	[illegible]	[illegible]	10.3
3228.4	[illegible]	[illegible]	[illegible]	[illegible]	10.9
3228.5	[illegible]	[illegible]	[illegible]	[illegible]	10.4
3228.6	[illegible]	[illegible]	[illegible]	[illegible]	8.5
3228.7	[illegible]	[illegible]	[illegible]	[illegible]	7.0
3228.8	[illegible]	[illegible]	[illegible]	[illegible]	5.3
3228.9	[illegible]	[illegible]	[illegible]	[illegible]	3.8
3229.0	[illegible]	[illegible]	[illegible]	[illegible]	2.6
3229.1	[illegible]	[illegible]	[illegible]	[illegible]	1.8
3229.2	[illegible]	[illegible]	[illegible]	[illegible]	1.2
3229.3	[illegible]	[illegible]	[illegible]	[illegible]	0.8
3229.4	[illegible]	[illegible]	[illegible]	[illegible]	0.7
3229.5	[illegible]	[illegible]	[illegible]	[illegible]	0.7
3229.6	[illegible]	[illegible]	[illegible]	[illegible]	0.7
3229.7	[illegible]	[illegible]	[illegible]	[illegible]	0.6
3229.8	[illegible]	[illegible]	[illegible]	[illegible]	0.4
3229.9	[illegible]	[illegible]	[illegible]	[illegible]	0.2
3230.0	[illegible]	[illegible]	[illegible]	[illegible]	0.1
3230.1	[illegible]	[illegible]	[illegible]	[illegible]	0.1
3230.2	[illegible]	[illegible]	[illegible]	[illegible]	0.1
3230.3	[illegible]	[illegible]	[illegible]	[illegible]	0.3
3230.4	[illegible]	[illegible]	[illegible]	[illegible]	0.6
3230.5	[illegible]	[illegible]	[illegible]	[illegible]	0.8
3230.6	[illegible]	[illegible]	[illegible]	[illegible]	1.2
3230.7	[illegible]	[illegible]	[illegible]	[illegible]	1.6
3230.8	[illegible]	[illegible]	[illegible]	[illegible]	2.0
3230.9	[illegible]	[illegible]	[illegible]	[illegible]	2.8
3231.0	[illegible]	[illegible]	[illegible]	[illegible]	4.2
3231.1	[illegible]	[illegible]	[illegible]	[illegible]	6.2
3231.2	[illegible]	[illegible]	[illegible]	[illegible]	8.1
3231.3	[illegible]	[illegible]	[illegible]	[illegible]	9.3
3231.4	[illegible]	[illegible]	[illegible]	[illegible]	10.1
3231.5	[illegible]	[illegible]	[illegible]	[illegible]	10.6
3231.6	[illegible]	[illegible]	[illegible]	[illegible]	10.6
3231.7	[illegible]	[illegible]	[illegible]	[illegible]	9.8
3231.8	[illegible]	[illegible]	[illegible]	[illegible]	8.7
3231.9	[illegible]	[illegible]	[illegible]	[illegible]	6.6

Sam. No.		37	39	40	41
p(atm)		7.37×10^{-3}	9.67×10^{-3}	2.01×10^{-2}	2.00×10^{-2}
P_e(atm)		3.32×10^{-1}	9.89×10^{-1}	2.80×10^{-1}	9.76×10^{-1}
u(gm/cm^2)		1.80×10^{-2}	8.67×10^{-2}	1.39×10^{0}	1.38×10^{0}
ν (cm^{-1})	λ (micron)	T × 100	T × 100	T × 100	T × 100
3242.0	3.08452	92.6	66.1	28.0	7.9
3242.1	3.08442	95.7	[illegible]	38.6	11.1
3242.2	3.08433	97.1	82.6	47.8	13.7
3242.3	3.08423	97.5	86.8	52.2	15.9
3242.4	3.08414	97.4	84.5	51.9	15.5
3242.5	3.08404	97.3	88.9	46.0	14.3
3242.6	3.08394	97.6	88.0	40.3	11.4
3242.7	3.08385	96.5	85.6	31.1	7.7
3242.8	3.08375	95.7	81.6	22.4	4.7
3242.9	3.08366	94.0	77.9	17.8	3.4
3243.0	3.08356	92.5	75.3	19.2	3.4
3243.1	3.08347	92.4	74.9	24.8	4.6
3243.2	3.08337	94.0	77.2	30.9	6.0
3243.3	3.08328	95.2	81.0	37.8	6.9
3243.4	3.08318	96.8	82.9	39.1	7.1
3243.5	3.08309	97.2	83.8	39.5	6.4
3243.6	3.08299	97.4	84.0	38.2	5.4
3243.7	3.08290	97.6	83.2	34.6	4.6
3243.8	3.08280	97.7	81.1	28.9	3.1
3243.9	3.08271	97.0	77.4	22.8	1.7
3244.0	3.08261	96.2	73.3	17.2	1.0
3244.1	3.08252	95.3	68.1	11.7	0.9
3244.2	3.08242	92.9	59.6	6.8	0.7
3244.3	3.08233	89.4	53.3	4.5	0.5
3244.4	3.08223	85.8	41.1	2.9	0.3
3244.5	3.08214	83.1	32.6	2.0	0.3
3244.6	3.08204	80.3	24.4	1.4	0.3
3244.7	3.08195	71.0	17.0	1.4	0.3
3244.8	3.08185	56.6	12.0	1.4	0.3
3244.9	3.08176	44.2	7.7	1.4	0.2
3245.0	3.08166	40.0	5.5	1.4	0.2
3245.1	3.08157	46.4	5.3	1.4	0.2
3245.2	3.08147	57.7	6.4	1.4	0.1
3245.3	3.08138	63.2	9.2	1.9	0.1
3245.4	3.08128	66.4	14.0	3.2	0.1
3245.5	3.08119	72.8	20.8	5.6	0.2
3245.6	3.08109	81.7	29.9	9.3	0.4
3245.7	3.08100	89.7	46.2	12.4	0.9
3245.8	3.08090	94.1	57.8	17.4	1.7
3245.9	3.08081	95.4	66.4	22.9	2.8
3246.0	3.08071	96.9	73.2	27.6	3.7
3246.1	3.08062	97.1	78.2	30.8	4.5
3246.2	3.08052	97.5	80.7	32.9	5.3
3246.3	3.08043	97.6	81.4	37.0	6.3
3246.4	3.08034	96.9	82.2	32.4	7.8
3246.5	3.08024	96.6	83.3	35.4	10.6
3246.6	3.08015	97.2	84.7	41.2	12.8
3246.7	3.08005	98.0	86.1	47.0	13.4
3246.8	3.07996	98.5	87.3	48.2	12.4
3246.9	3.07986	98.9	86.3	44.2	9.7
3247.0	3.07977	97.7	82.6	34.5	6.8
3247.1	3.07967	96.6	74.5	27.9	6.0
3247.2	3.07958	94.8	75.5	25.1	7.7
3247.3	3.07948	93.0	75.2	28.6	11.1
3247.4	3.07939	97.5	78.0	38.3	16.4
3247.5	3.07929	96.0	83.0	49.7	23.1
3247.6	3.07920	96.7	88.9	58.9	27.7
3247.7	3.07910	98.6	91.6	64.7	33.3
3247.8	3.07901	94.3	93.5	67.7	37.2
3247.9	3.07891	99.2	94.3	69.7	40.2
3248.0	3.07882	99.5	94.9	71.3	42.1
3248.1	3.07872	99.5	95.5	71.9	43.2
3248.2	3.07863	99.3	95.8	71.9	43.8
3248.3	3.07853	99.4	95.9	71.8	44.0
3248.4	3.07844	99.8	96.0	71.1	44.1
3248.5	3.07834	99.8	96.0	69.4	43.3
3248.6	3.07825	99.3	96.0	66.6	41.2
3248.7	3.07815	99.6	95.7	62.8	38.1
3248.8	3.07806	99.7	95.2	58.3	34.2
3248.9	3.07796	99.7	94.5	53.5	29.7
3249.0	3.07787	99.5	93.5	48.9	25.1
3249.1	3.07778	99.1	92.1	44.1	21.7
3249.2	3.07768	98.7	90.8	40.5	20.9
3249.3	3.07759	98.2	90.2	40.2	22.7
3249.4	3.07749	97.9	90.6	44.2	27.9
3249.5	3.07740	97.7	91.9	50.3	35.3
3249.6	3.07730	97.9	93.7	59.0	42.2
3249.7	3.07721	98.5	95.2	66.1	47.6
3249.8	3.07711	99.0	95.9	72.5	49.6
3249.9	3.07702	99.1	96.3	74.4	50.9
3250.0	3.07692	99.4	96.7	75.8	51.8
3250.1	3.07683	99.4	96.9	76.4	52.0
3250.2	3.07673	99.7	96.9	76.7	51.6
3250.3	3.07664	100.1	97.0	76.4	51.2
3250.4	3.07654	99.9	97.0	76.1	50.6

Sam. No.		37	39	40	41
p(atm)		7.37×10^{-3}	9.67×10^{-3}	2.01×10^{-2}	2.00×10^{-2}
P_e(atm)		3.32×10^{-1}	9.89×10^{-1}	2.80×10^{-1}	9.76×10^{-1}
u(gm/cm^2)		1.80×10^{-2}	8.67×10^{-2}	1.39×10^{0}	1.38×10^{0}
ν (cm^{-1})	λ (micron)	T × 100	T × 100	T × 100	T × 100
3260.5	3.06701	67.1	27.8	4.7	0.1
3260.6	3.06692	74.8	[illegible]	5.5	0.6
3260.7	3.06683	85.4	37.6	8.4	1.9
3260.8	3.06673	93.1	47.3	14.2	2.4
3260.9	3.06664	95.5	65.8	19.1	3.6
3261.0	3.06654	96.5	[illegible]	23.9	5.6
3261.1	3.06645	97.1	83.6	32.9	10.8
3261.2	3.06636	97.6	86.9	39.8	15.8
3261.3	3.06626	98.1	89.4	45.9	19.0
3261.4	3.06617	98.2	90.7	51.8	22.7
3261.5	3.06607	98.3	[illegible]	58.8	26.8
3261.6	3.06598	98.1	92.9	62.1	29.7
3261.7	3.06589	98.2	93.6	65.3	32.3
3261.8	3.06579	98.6	93.9	66.6	33.8
3261.9	3.06570	98.7	93.9	67.2	34.5
3262.0	3.06560	99.2	93.4	66.3	34.3
3262.1	3.06551	98.8	93.2	64.7	31.7
3262.2	3.06542	98.8	91.8	58.9	25.9
3262.3	3.06532	98.4	89.7	51.2	21.0
3262.4	3.06523	97.5	[illegible]	43.8	16.5
3262.5	3.06513	[illegible]	86.2	38.8	13.4
3262.6	3.06504	96.4	86.2	36.1	[illegible]
3262.7	3.06495	97.0	86.1	35.6	11.2
3262.8	3.06485	97.0	85.0	39.3	11.4
3262.9	3.06476	97.1	83.6	39.1	10.3
3263.0	3.06466	95.6	79.5	34.2	9.1
3263.1	3.06457	92.1	72.8	28.1	5.8
3263.2	3.06448	87.5	65.3	17.5	3.7
3263.3	3.06438	84.3	53.7	12.8	2.4
3263.4	3.06429	47.2	54.3	14.9	2.4
3263.5	3.06419	91.1	62.5	18.2	3.2
3263.6	3.06410	96.4	72.4	23.1	5.7
3263.7	3.06401	96.4	82.2	30.6	[illegible]
3263.8	3.06391	97.5	84.3	39.6	[illegible]
3263.9	3.06382	96.5	86.4	44.0	[illegible]
3264.0	3.06373	98.2	87.3	42.8	11.4
3264.1	3.06363	97.9	87.0	36.8	9.9
3264.2	3.06354	97.6	86.4	32.8	[illegible]
3264.3	3.06344	97.4	85.0	32.1	[illegible]
3264.4	3.06335	97.4	84.0	33.1	7.7
3264.5	3.06326	97.5	82.2	33.5	6.3
3264.6	3.06316	97.2	78.6	30.9	4.4
3264.7	3.06307	95.7	72.4	24.6	2.9
3264.8	3.06297	91.0	60.3	15.8	2.0
3264.9	3.06288	83.3	57.1	9.6	1.3
3265.0	3.06279	75.3	46.4	7.3	1.1
3265.1	3.06269	71.2	37.9	5.7	1.3
3265.2	3.06260	75.2	34.6	7.0	1.8
3265.3	3.06251	84.6	37.8	12.4	2.4
3265.4	3.06241	91.9	47.4	19.9	2.8
3265.5	3.06232	96.0	64.8	27.1	4.1
3265.6	3.06222	97.4	76.2	32.8	6.0
3265.7	3.06213	96.5	81.4	37.3	7.1
3265.8	3.06204	98.5	82.3	35.9	7.0
3265.9	3.06194	97.0	81.3	31.5	5.9
3266.0	3.06185	95.4	[illegible]	24.7	3.9
3266.1	3.06176	94.0	[illegible]	17.5	[illegible]
3266.2	3.06166	91.9	70.1	12.4	2.8
3266.3	3.06157	90.1	67.0	11.5	3.1
3266.4	3.06147	90.4	65.9	15.2	4.0
3266.5	3.06138	92.2	67.1	20.7	6.3
3266.6	3.06129	95.2	71.8	29.2	9.5
3266.7	3.06119	97.9	78.9	40.6	13.8
3266.8	3.06110	99.0	86.0	52.6	25.5
3266.9	3.06101	99.3	90.7	58.6	26.7
3267.0	3.06091	99.3	92.0	57.1	29.7
3267.1	3.06082	99.3	92.9	54.4	30.4
3267.2	3.06072	99.0	93.1	52.5	31.4
3267.3	3.06063	98.8	93.5	53.1	33.4
3267.4	3.06054	99.0	94.1	57.5	37.0
3267.5	3.06044	99.4	95.0	65.4	41.9
3267.6	3.06035	99.7	95.9	71.3	47.4
3267.7	3.06026	99.4	96.4	74.0	50.0
3267.8	3.06016	100.0	96.6	74.8	51.2
3267.9	3.06007	100.1	95.9	75.2	51.9
3268.0	3.05998	99.6	97.2	75.6	52.7
3268.1	3.05988	99.3	97.3	76.1	53.6
3268.2	3.05979	100.1	97.5	76.5	53.9
3268.3	3.05969	100.3	97.5	76.6	54.2
3268.4	3.05960	100.0	97.5	76.6	54.4
3268.5	3.05951	99.6	97.5	76.7	54.3
3268.6	3.05941	99.3	97.9	76.8	54.0
3268.7	3.05932	99.6	97.5	76.8	53.7
3268.8	3.05923	99.6	97.5	76.7	53.7
3268.9	3.05913	99.9	97.4	76.4	52.5

3287.5	3.04183	98.3	91.1	54.2	20.7
3287.6	3.04173	98.3	88.9	49.4	16.2
3287.7	3.04164	97.6	85.8	41.8	11.4
3287.8	3.04155	97.2	82.6	32.7	7.9
3287.9	3.04146	96.5	76.3	24.6	4.9
3288.0	3.04136	95.4	68.1	17.1	3.1
3288.1	3.04127	92.6	57.0	9.9	2.1
3288.2	3.04118	86.2	47.2	4.5	1.7
3288.3	3.04109	77.2	37.9	3.0	1.5
3288.4	3.04099	68.7	27.4	2.6	1.4
3288.5	3.04090	67.0	23.5	2.6	1.3
3288.6	3.04081	70.6	23.0	3.6	1.3
3288.7	3.04072	74.2	24.7	5.9	1.3
3288.8	3.04062	75.4	27.8	10.0	1.4
3288.9	3.04053	76.1	33.1	15.5	1.8
3289.0	3.04044	80.5	42.5	20.5	2.4
3289.1	3.04035	90.8	54.9	29.2	3.6
3289.2	3.04025	93.7	68.0	37.7	5.9
3289.3	3.04016	96.0	78.9	42.3	9.4
3289.4	3.04007	96.9	82.8	46.2	12.6
3289.5	3.03998	97.4	86.0	49.4	14.9
3289.6	3.03988	97.8	88.0	51.6	16.2
3289.7	3.03979	97.8	88.9	52.6	16.7
3289.8	3.03970	97.2	89.1	52.0	16.5
3289.9	3.03961	97.4	89.0	47.1	15.0
3290.0	3.03951	97.6	87.3	41.7	12.5
3290.1	3.03942	97.0	85.5	36.4	10.0
3290.2	3.03933	96.6	84.0	31.0	8.1
3290.3	3.03924	96.1	83.1	33.1	7.1
3290.4	3.03914	95.9	82.9	35.6	6.4
3290.5	3.03905	96.8	82.4	35.3	5.6
3290.6	3.03896	96.8	80.7	32.8	4.6
3290.7	3.03887	96.8	77.6	28.1	3.4
3290.8	3.03877	96.0	72.8	21.6	2.2
3290.9	3.03868	94.4	65.2	15.1	1.8
3291.0	3.03859	89.6	55.6	8.5	1.4
3291.1	3.03850	80.4	44.6	4.5	1.2
3291.2	3.03841	69.0	34.8	3.1	1.0
3291.3	3.03831	62.4	27.9	3.0	0.9
3291.4	3.03822	65.5	23.1	3.3	0.7
3291.5	3.03813	75.8	26.9	4.4	0.6
3291.6	3.03804	86.3	34.3	6.1	0.5
3291.7	3.03794	91.3	43.7	7.6	0.4
3291.8	3.03785	92.8	54.5	8.4	0.4
3291.9	3.03776	93.1	58.6	8.5	0.4
3292.0	3.03767	92.9	59.1	7.6	0.3
3292.1	3.03757	91.2	56.1	6.4	0.3
3292.2	3.03748	96.0	50.0	4.9	0.2
3292.3	3.03739	77.0	41.3	3.5	0.2
3292.4	3.03730	68.5	33.1	2.5	0.1
3292.5	3.03721	63.4	24.7	1.6	0.1
3292.6	3.03711	61.1	18.1	1.2	0.1
3292.7	3.03702	61.7	14.2	1.2	0.
3292.8	3.03693	64.2	13.4	1.3	0.
3292.9	3.03684	67.6	15.2	2.0	0.2
3293.0	3.03674	73.4	19.8	3.6	0.4
3293.1	3.03665	79.8	25.0	6.1	0.6
3293.2	3.03656	85.7	31.6	9.6	0.8
3293.3	3.03647	91.1	44.1	14.5	1.5
3293.4	3.03638	94.4	58.6	20.5	2.0
3293.5	3.03628	95.3	67.9	23.5	2.7
3293.6	3.03619	96.1	73.6	24.8	3.0
3293.7	3.03610	95.7	76.4	24.8	2.9
3293.8	3.03601	94.7	76.1	22.2	2.4
3293.9	3.03591	92.1	72.5	16.2	2.0
3294.0	3.03582	87.2	66.4	11.5	1.8
3294.1	3.03573	83.2	60.0	9.0	1.7
3294.2	3.03564	82.1	51.4	8.6	1.8
3294.3	3.03555	84.6	51.1	9.9	2.2
3294.4	3.03545	89.3	53.4	15.9	4.0
3294.5	3.03536	94.1	62.3	28.5	7.5
3294.6	3.03527	96.8	72.7	40.7	12.7
3294.7	3.03518	97.5	81.6	50.7	18.4
3294.8	3.03509	98.1	87.5	56.4	23.4
3294.9	3.03499	98.3	89.8	60.5	27.6
3295.0	3.03490	98.2	91.4	63.6	30.6
3295.1	3.03481	98.3	92.6	65.4	33.4
3295.2	3.03472	98.0	93.4	66.6	35.3
3295.3	3.03463	98.6	93.8	67.3	36.1
3295.4	3.03453	98.8	93.9	67.5	36.2
3295.5	3.03444	98.4	94.0	66.7	35.6
3295.6	3.03435	98.3	93.9	64.4	33.7
3295.7	3.03426	98.1	93.4	60.4	30.3
3295.8	3.03416	97.7	92.5	55.6	27.0
3295.9	3.03407	97.5	91.1	50.1	22.7
3296.0	3.03398	97.3	89.4	44.0	17.7
3296.1	3.03389	97.0	88.2	40.2	14.0
3296.2	3.03380	96.7	87.1	39.0	12.4
3296.3	3.03370	96.9	86.4	39.9	11.6
3296.4	3.03361	96.8	85.2	40.4	9.6
3296.5	3.03352	96.5	82.9	37.8	7.5
3296.6	3.03343	95.0	79.2	31.1	5.5
3296.7	3.03334	90.7	74.1	23.7	3.7
3296.8	3.03324	87.2	67.0	17.1	1.8
3296.9	3.03315	86.1	59.9	10.6	1.3
3297.0	3.03306	87.6	55.0	7.5	0.9
3297.1	3.03297	89.2	52.7	7.2	0.7
3297.2	3.03288	87.4	51.4	6.6	0.5
3297.3	3.03278	79.0	48.4	5.6	0.3
3297.4	3.03269	70.0	42.4	3.9	0.1
3306.0	3.02480	99.1	96.4	72.0	51.0
3306.1	3.02471	99.2	96.1	70.8	48.6
3306.2	3.02462	99.1	95.9	69.3	46.5
3306.3	3.02453	99.2	95.7	69.0	45.4
3306.4	3.02444	98.9	95.4	69.5	44.2
3306.5	3.02435	99.2	95.3	70.0	42.7
3306.6	3.02425	99.4	95.0	70.1	41.2
3306.7	3.02416	99.3	94.6	69.8	39.7
3306.8	3.02407	98.8	93.9	68.8	37.9
3306.9	3.02398	99.0	92.9	66.6	35.6
3307.0	3.02389	98.8	91.6	63.7	31.9
3307.1	3.02380	99.2	90.4	60.9	28.1
3307.2	3.02371	99.1	84.6	54.9	23.7
3307.3	3.02362	98.3	86.0	49.8	18.7
3307.4	3.02352	97.3	82.0	43.3	14.5
3307.5	3.02343	95.9	77.6	34.6	8.9
3307.6	3.02334	93.8	70.9	24.8	5.9
3307.7	3.02325	92.5	64.9	16.7	3.8
3307.8	3.02316	90.9	59.3	9.8	2.4
3307.9	3.02307	87.8	53.7	6.4	1.7
3308.0	3.02297	84.1	48.7	4.8	1.1
3308.1	3.02288	79.3	40.4	3.8	0.9
3308.2	3.02279	75.6	32.8	2.8	0.8
3308.3	3.02270	73.2	25.5	2.4	0.8
3308.4	3.02261	69.8	19.4	1.9	0.7
3308.5	3.02252	62.6	15.8	1.7	0.7
3308.6	3.02243	53.4	11.9	1.6	0.6
3308.7	3.02234	46.0	9.4	1.6	0.6
3308.8	3.02224	47.9	7.3	1.7	0.6
3308.9	3.02215	52.4	6.3	2.3	0.6
3309.0	3.02206	59.9	7.3	3.1	0.5
3309.1	3.02197	66.7	13.4	4.6	0.5
3309.2	3.02188	79.7	19.5	8.5	0.5
3309.3	3.02179	87.7	36.5	14.5	0.5
3309.4	3.02170	92.6	54.4	16.7	0.8
3309.5	3.02160	95.1	68.1	20.8	1.4
3309.6	3.02151	96.2	75.2	27.0	2.3
3309.7	3.02142	96.3	77.6	31.4	3.2
3309.8	3.02133	96.8	78.4	33.3	3.6
3309.9	3.02124	96.6	77.3	33.6	3.9
3310.0	3.02115	96.2	74.1	31.9	3.7
3310.1	3.02106	95.6	68.3	26.8	3.0
3310.2	3.02097	93.2	60.0	21.3	1.8
3310.3	3.02087	85.3	50.6	14.8	1.1
3310.4	3.02078	77.2	42.3	8.6	0.9
3310.5	3.02069	73.1	36.7	7.4	0.9
3310.6	3.02060	75.0	35.4	8.0	1.0
3310.7	3.02051	82.4	40.2	11.6	1.6
3310.8	3.02042	91.1	55.9	17.8	3.0
3310.9	3.02033	94.9	70.8	25.3	4.4
3311.0	3.02024	97.0	78.8	31.1	5.5
3311.1	3.02014	97.7	81.6	34.3	6.4
3311.2	3.02005	97.8	82.9	35.6	7.4
3311.3	3.01996	97.9	83.2	35.9	7.7
3311.4	3.01987	97.6	82.2	35.6	7.2
3311.5	3.01978	97.7	79.3	33.9	6.5
3311.6	3.01969	97.8	74.8	30.5	5.6
3311.7	3.01960	96.7	69.4	25.5	4.4
3311.8	3.01951	93.3	61.3	19.4	3.0
3311.9	3.01941	87.5	54.0	13.2	2.2
3312.0	3.01932	82.2	48.2	9.3	1.8
3312.1	3.01923	80.8	45.1	9.2	1.6
3312.2	3.01914	83.9	46.7	11.2	1.4
3312.3	3.01905	89.1	55.4	14.4	1.3
3312.4	3.01896	93.9	63.6	17.8	1.2
3312.5	3.01887	96.3	67.8	19.3	1.1
3312.6	3.01878	96.7	66.9	18.6	0.9
3312.7	3.01869	96.3	63.5	16.7	0.9
3312.8	3.01859	95.4	58.4	13.4	0.8
3312.9	3.01850	92.2	49.7	8.5	0.7
3313.0	3.01841	85.1	40.5	5.6	0.6
3313.1	3.01832	73.5	32.4	3.7	0.4
3313.2	3.01823	58.9	23.5	2.8	0.3
3313.3	3.01814	51.3	16.8	2.6	0.3
3313.4	3.01805	54.7	15.1	2.8	0.3
3313.5	3.01796	66.1	19.6	3.7	0.3
3313.6	3.01787	79.4	30.1	7.1	0.6
3313.7	3.01777	89.4	45.5	12.8	1.2
3313.8	3.01768	94.7	63.7	17.8	2.2
3313.9	3.01759	96.9	74.1	21.7	3.5
3314.0	3.01750	97.9	78.8	25.1	5.6
3314.1	3.01741	98.3	82.6	31.3	8.7
3314.2	3.01732	98.6	85.8	36.7	12.4
3314.3	3.01723	99.0	87.9	42.5	15.7
3314.4	3.01714	99.2	89.2	48.9	17.9
3314.5	3.01705	99.3	90.2	51.9	18.5
3314.6	3.01696	99.6	90.0	50.9	20.0
3314.7	3.01686	99.6	89.6	47.9	19.2
3314.8	3.01677	99.5	89.2	43.6	18.3
3314.9	3.01668	98.9	89.0	40.6	18.4
3315.0	3.01659	98.2	89.5	41.5	20.7
3315.1	3.01650	98.4	91.1	45.6	25.6
3315.2	3.01641	98.6	92.8	51.5	30.8
3315.3	3.01632	99.6	94.2	59.0	37.0
3315.4	3.01623	100.1	95.0	67.5	43.7
3315.5	3.01614	100.3	95.3	72.5	44.9
3315.6	3.01605	100.4	95.4	74.1	47.2
3315.7	3.01595	100.5	95.8	74.8	49.0
3315.8	3.01586	100.1	96.1	75.2	50.0
3315.9	3.01577	100.4	96.0	75.3	49.8
3324.5	3.00797	81.2	44.7	11.0	1.4
3324.6	3.00788	80.4	44.2	8.4	1.4
3324.7	3.00779	82.5	47.0	9.1	1.8
3324.8	3.00770	85.7	54.7	13.1	3.0
3324.9	3.00761	88.6	68.6	19.6	5.1
3325.0	3.00752	91.5	76.0	27.1	8.8
3325.1	3.00743	94.4	81.7	36.5	12.1
3325.2	3.00734	96.5	85.0	44.7	14.4
3325.3	3.00725	97.1	86.0	49.6	15.4
3325.4	3.00716	97.1	85.9	49.8	15.3
3325.5	3.00707	96.9	84.4	46.8	14.1
3325.6	3.00698	96.4	82.2	41.1	12.1
3325.7	3.00689	95.5	74.6	33.9	9.3
3325.8	3.00680	92.4	73.0	25.6	6.1
3325.9	3.00670	88.6	64.9	16.4	3.3
3326.0	3.00661	85.3	56.2	9.1	2.3
3326.1	3.00652	82.9	48.8	5.0	1.7
3326.2	3.00643	81.2	42.7	3.3	1.3
3326.3	3.00634	77.6	37.9	2.5	0.9
3326.4	3.00625	75.8	35.7	2.2	0.7
3326.5	3.00616	76.3	33.9	2.3	0.6
3326.6	3.00607	78.9	34.1	2.4	0.5
3326.7	3.00598	82.8	37.0	2.5	0.4
3326.8	3.00589	85.0	42.0	3.1	0.3
3326.9	3.00580	87.0	46.4	4.6	0.2
3327.0	3.00571	88.6	49.9	5.7	0.1
3327.1	3.00562	88.7	51.4	6.1	0.1
3327.2	3.00553	84.9	50.2	5.7	0.1
3327.3	3.00544	79.4	45.1	4.9	0.1
3327.4	3.00535	75.2	40.7	3.6	0.3
3327.5	3.00526	73.3	36.0	3.7	0.5
3327.6	3.00517	74.4	32.4	5.3	0.9
3327.7	3.00508	79.6	31.4	9.3	1.7
3327.8	3.00499	86.7	36.2	16.6	3.9
3327.9	3.00490	92.1	46.2	25.3	6.2
3328.0	3.00481	95.3	61.2	35.2	9.4
3328.1	3.00472	96.8	76.2	45.4	13.1
3328.2	3.00463	97.4	84.0	54.6	17.8
3328.3	3.00454	97.6	88.3	58.2	21.9
3328.4	3.00445	97.6	90.4	59.7	24.7
3328.5	3.00436	97.7	91.1	59.4	26.5
3328.6	3.00427	97.8	90.9	57.1	27.2
3328.7	3.00418	97.9	90.2	51.0	25.9
3328.8	3.00409	97.0	89.2	45.8	23.1
3328.9	3.00400	96.5	88.3	43.2	20.1
3329.0	3.00391	96.7	87.0	43.1	17.9
3329.1	3.00381	97.2	84.7	44.6	16.9
3329.2	3.00372	97.4	79.1	45.1	16.5
3329.3	3.00363	96.5	71.6	42.3	13.6
3329.4	3.00354	93.9	64.3	36.3	10.4
3329.5	3.00345	89.9	58.8	28.1	7.5
3329.6	3.00336	85.4	56.9	19.6	5.6
3329.7	3.00327	84.2	61.0	17.0	4.8
3329.8	3.00318	86.6	69.5	19.9	5.8
3329.9	3.00309	91.1	79.5	27.3	8.2
3330.0	3.00300	95.4	87.8	38.2	12.5
3330.1	3.00291	97.5	91.5	51.8	19.2
3330.2	3.00282	98.2	93.6	60.8	28.1
3330.3	3.00273	98.1	94.5	66.7	33.8
3330.4	3.00264	98.2	94.9	69.2	39.1
3330.5	3.00255	98.3	95.1	68.9	43.4
3330.6	3.00246	98.4	95.3	67.2	44.6
3330.7	3.00237	98.5	95.4	65.3	45.5
3330.8	3.00228	98.2	95.5	65.0	46.5
3330.9	3.00219	98.1	95.7	66.2	47.9
3331.0	3.00210	98.1	96.0	68.1	49.8
3331.1	3.00201	98.0	96.2	69.6	52.0
3331.2	3.00192	98.4	96.5	71.5	53.9
3331.3	3.00183	98.5	96.7	73.5	55.6
3331.4	3.00174	98.5	96.6	75.9	56.9
3331.5	3.00165	98.8	96.9	77.1	57.7
3331.6	3.00156	99.1	96.9	77.3	58.3
3331.7	3.00147	98.8	96.9	76.6	58.1
3331.8	3.00138	98.2	96.8	74.9	56.5
3331.9	3.00129	98.5	96.6	71.4	53.8
3332.0	3.00120	98.3	96.4	67.0	50.5
3332.1	3.00111	97.9	96.1	63.4	47.6
3332.2	3.00102	97.7	95.5	62.5	45.6
3332.3	3.00093	97.7	94.7	60.0	42.5
3332.4	3.00084	97.7	93.9	57.2	39.9
3332.5	3.00075	97.4	93.0	54.2	37.0
3332.6	3.00066	97.3	92.1	51.3	33.3
3332.7	3.00057	97.4	91.7	50.8	32.5
3332.8	3.00048	97.8	92.0	55.3	34.2
3332.9	3.00039	98.1	92.7	59.9	36.3
3333.0	3.00030	98.4	93.4	62.8	37.8
3333.1	3.00021	98.4	93.8	63.5	38.3
3333.2	3.00012	98.1	94.1	63.7	38.0
3333.3	3.00003	97.8	94.2	63.7	37.3
3333.4	2.99994	98.3	94.2	63.1	35.4
3333.5	2.99985	98.4	93.9	62.2	32.7
3333.6	2.99976	98.5	93.2	60.8	29.4
3333.7	2.99967	98.2	92.4	57.8	25.6
3333.8	2.99958	97.7	90.9	53.3	21.6
3333.9	2.99949	97.4	89.0	48.3	16.6
3334.0	2.99940	97.4	86.6	43.3	11.3
3334.1	2.99931	96.9	83.3	37.6	6.9
3334.2	2.99922	95.5	77.8	28.2	4.7
3334.3	2.99913	91.7	69.7	19.5	2.9
3334.4	2.99904	83.6	60.4	12.6	2.1
3343.0	2.99133	96.5	93.3	46.1	45.5
3343.1	2.99124	97.2	94.5	52.6	49.8
3343.2	2.99115	97.9	95.3	60.0	53.2
3343.3	2.99106	96.8	95.9	65.9	56.3
3343.4	2.99097	98.7	96.3	68.8	58.0
3343.5	2.99088	99.0	96.6	69.9	59.5
3343.6	2.99079	99.3	96.7	71.1	61.2
3343.7	2.99070	99.2	96.9	73.4	63.2
3343.8	2.99061	98.7	97.0	76.1	65.2
3343.9	2.99052	99.4	97.2	78.4	65.3
3344.0	2.99043	99.3	97.3	79.6	65.1
3344.1	2.99034	99.2	97.5	79.5	65.0
3344.2	2.99025	99.2	97.6	79.2	64.9
3344.3	2.99016	99.3	97.7	78.1	64.9
3344.4	2.99007	98.6	97.7	77.4	64.6
3344.5	2.98998	98.9	97.7	77.4	64.2
3344.6	2.98989	99.2	97.7	77.6	63.8
3344.7	2.98980	99.3	97.7	78.1	63.2
3344.8	2.98972	99.3	97.5	78.3	62.6
3344.9	2.98963	98.3	97.4	78.0	60.9
3345.0	2.98954	98.7	97.1	76.9	58.4
3345.1	2.98945	99.3	96.6	75.3	54.6
3345.2	2.98936	99.3	96.0	73.7	48.8
3345.3	2.98927	98.8	94.9	72.2	42.1
3345.4	2.98918	98.9	93.7	68.9	36.9
3345.5	2.98909	98.3	91.4	60.8	30.9
3345.6	2.98900	98.5	88.1	51.4	24.1
3345.7	2.98891	97.9	84.3	43.2	14.6
3345.8	2.98882	96.0	80.5	36.9	13.1
3345.9	2.98873	93.3	78.6	30.2	14.8
3346.0	2.98864	92.6	79.1	30.0	19.5
3346.1	2.98855	93.5	82.2	35.3	26.8
3346.2	2.98846	95.3	87.4	46.4	35.3
3346.3	2.98838	97.6	91.5	60.5	42.8
3346.4	2.98829	98.9	94.0	68.4	48.7
3346.5	2.98820	99.3	95.2	71.2	52.7
3346.6	2.98811	98.9	95.9	73.5	55.0
3346.7	2.98802	98.9	96.1	74.1	54.2
3346.8	2.98793	99.4	96.2	73.0	52.3
3346.9	2.98784	99.5	96.0	68.3	49.9
3347.0	2.98775	100.0	95.8	64.1	47.7
3347.1	2.98766	99.4	95.7	61.1	45.8
3347.2	2.98757	98.9	95.6	59.9	46.2
3347.3	2.98748	99.1	95.5	60.9	46.2
3347.4	2.98739	99.1	95.4	61.7	43.7
3347.5	2.98730	98.9	95.1	60.8	39.0
3347.6	2.98721	99.2	94.4	57.7	33.9
3347.7	2.98713	99.3	92.8	52.1	25.5
3347.8	2.98704	99.0	91.1	45.7	18.5
3347.9	2.98695	98.7	89.0	38.5	13.6
3348.0	2.98686	97.9	86.0	31.2	9.9
3348.1	2.98677	96.7	83.3	24.8	6.6
3348.2	2.98668	95.8	81.4	20.7	8.4
3348.3	2.98659	95.6	80.3	20.7	9.6
3348.4	2.98650	95.2	83.0	24.5	13.3
3348.5	2.98641	95.7	81.2	32.3	21.7
3348.6	2.98632	96.7	85.3	44.6	29.8
3348.7	2.98623	98.0	89.4	56.0	37.0
3348.8	2.98614	98.9	92.6	62.3	42.8
3348.9	2.98606	99.4	94.3	65.9	46.8
3349.0	2.98597	99.4	95.3	68.6	48.2
3349.1	2.98588	99.7	95.7	70.2	48.4
3349.2	2.98579	99.9	95.8	69.6	47.0
3349.3	2.98570	100.0	95.6	66.6	43.1
3349.4	2.98561	99.2	95.4	62.2	36.1
3349.5	2.98552	99.3	94.5	58.4	29.2
3349.6	2.98543	98.8	92.9	52.1	23.1
3349.7	2.98534	97.8	90.7	45.4	19.6
3349.8	2.98525	97.1	88.4	39.9	19.7
3349.9	2.98516	96.6	86.9	37.3	23.2
3350.0	2.98507	97.3	86.5	42.3	28.0
3350.1	2.98499	98.3	88.1	48.2	31.7
3350.2	2.98490	99.1	90.5	53.4	33.9
3350.3	2.98481	99.7	91.9	56.7	34.3
3350.4	2.98472	99.2	92.7	57.0	33.9
3350.5	2.98463	98.9	92.8	57.4	32.8
3350.6	2.98454	98.7	92.8	57.8	30.9
3350.7	2.98445	98.5	92.6	57.1	27.3
3350.8	2.98436	96.5	91.8	54.0	21.7
3350.9	2.98427	97.9	88.9	47.4	14.7
3351.0	2.98418	95.9	84.5	40.2	10.0
3351.1	2.98409	92.9	78.9	31.9	7.8
3351.2	2.98401	89.8	73.0	24.4	8.0
3351.3	2.98392	89.5	68.2	21.9	9.6
3351.4	2.98383	92.1	68.2	25.1	16.2
3351.5	2.98374	95.2	70.6	35.4	22.7
3351.6	2.98365	97.9	75.3	47.6	28.7
3351.7	2.98356	99.3	82.8	53.5	34.1
3351.8	2.98347	98.4	87.0	62.1	39.3
3351.9	2.98338	98.4	91.1	67.8	43.0
3352.0	2.98329	98.8	93.1	70.7	45.1
3352.1	2.98320	99.0	93.7	71.5	45.3
3352.2	2.98312	98.9	94.3	71.9	45.2
3352.3	2.98303	99.0	94.6	70.7	44.5
3352.4	2.98294	98.9	94.8	69.1	43.3
3352.5	2.98285	98.9	94.8	68.1	39.5
3352.6	2.98276	98.8	94.7	65.5	34.8
3352.7	2.98267	98.4	94.3	62.2	30.2
3352.8	2.98258	97.9	93.7	59.0	25.6
3352.9	2.98249	97.4	92.5	56.0	21.8
3361.5	2.97496	73.1	34.8	2.6	0.
3361.6	2.97477	62.8	24.2	2.0	0.
3361.7	2.97469	58.7	17.6	1.5	0.
3361.8	2.97460	64.4	16.6	1.1	0.
3361.9	2.97451	74.5	19.6	0.6	0.
3362.0	2.97442	79.7	22.8	0.8	0.
3362.1	2.97433	79.6	25.0	1.3	0.
3362.2	2.97424	76.0	25.4	1.9	0.
3362.3	2.97415	73.6	26.7	3.7	0.
3362.4	2.97407	79.0	31.7	5.9	0.1
3362.5	2.97398	86.2	41.0	7.6	0.3
3362.6	2.97389	91.7	53.2	8.8	0.5
3362.7	2.97380	93.4	55.9	10.0	0.8
3362.8	2.97371	93.2	54.5	11.6	1.0
3362.9	2.97362	91.3	61.3	15.5	1.6
3363.0	2.97354	92.5	65.8	21.1	2.0
3363.1	2.97345	96.7	70.5	26.7	2.4
3363.2	2.97336	97.1	74.6	30.0	2.7
3363.3	2.97327	98.4	76.9	30.5	2.5
3363.4	2.97318	98.4	77.1	28.7	2.0
3363.5	2.97309	98.3	75.4	23.9	1.4
3363.6	2.97301	97.4	71.4	18.7	1.3
3363.7	2.97292	96.4	64.9	11.8	1.0
3363.8	2.97283	94.8	57.1	6.6	0.4
3363.9	2.97274	91.5	47.6	3.5	0.2
3364.0	2.97265	83.9	37.5	2.1	0.1
3364.1	2.97256	73.3	26.2	1.9	0.
3364.2	2.97247	72.5	19.4	1.6	0.
3364.3	2.97239	78.7	17.6	1.4	0.
3364.4	2.97230	62.3	19.4	1.3	0.
3364.5	2.97221	71.2	23.0	1.6	0.
3364.6	2.97212	76.9	27.4	1.6	0.
3364.7	2.97203	82.3	31.0	1.6	0.
3364.8	2.97194	81.7	34.2	2.2	0.
3364.9	2.97186	83.0	37.2	2.6	0.
3365.0	2.97177	85.9	40.0	2.8	0.
3365.1	2.97168	89.2	42.5	2.6	0.
3365.2	2.97159	91.3	41.6	2.1	0.
3365.3	2.97150	89.1	37.9	1.8	0.
3365.4	2.97141	83.0	31.7	1.3	0.
3365.5	2.97133	72.7	23.5	0.7	0.
3365.6	2.97124	59.8	17.1	0.6	0.
3365.7	2.97115	50.2	12.9	0.6	0.
3365.8	2.97106	52.1	11.4	0.8	0.
3365.9	2.97097	61.4	13.1	1.2	0.
3366.0	2.97089	73.7	17.7	1.6	0.
3366.1	2.97080	83.7	24.9	2.1	0.
3366.2	2.97071	88.7	33.0	2.4	0.
3366.3	2.97062	88.6	40.3	3.1	0.
3366.4	2.97053	86.6	41.9	4.6	0.
3366.5	2.97044	84.6	43.0	6.2	0.
3366.6	2.97036	84.4	44.6	9.2	0.
3366.7	2.97027	87.4	47.5	11.9	0.
3366.8	2.97018	91.2	53.5	13.9	0.
3366.9	2.97009	94.0	59.3	14.9	0.
3367.0	2.97000	94.8	63.0	11.9	0.
3367.1	2.96991	95.2	63.5	9.6	0.
3367.2	2.96983	92.8	69.3	7.7	0.
3367.3	2.96974	86.2	52.8	5.7	0.
3367.4	2.96965	76.0	43.9	3.9	0.
3367.5	2.96956	63.5	34.8	2.6	0.
3367.6	2.96947	55.3	26.7	2.0	0.
3367.7	2.96939	57.3	20.7	2.3	0.1
3367.8	2.96930	67.0	19.6	4.1	0.1
3367.9	2.96921	79.3	21.8	7.5	0.2
3368.0	2.96917	88.6	29.5	12.0	0.2
3368.1	2.96903	93.5	43.3	16.0	0.5
3368.2	2.96894	95.2	56.9	18.3	0.4
3368.3	2.96886	95.7	65.0	19.1	0.4
3368.4	2.96877	95.3	67.5	17.9	0.3
3368.5	2.96868	93.3	66.6	13.9	0.3
3368.6	2.96859	89.3	61.9	9.4	0.3
3368.7	2.96850	81.9	54.6	5.9	0.3
3368.8	2.96842	78.2	45.4	3.1	0.3
3368.9	2.96833	77.3	37.8	3.2	0.3
3369.0	2.96824	78.8	34.9	3.8	0.4
3369.1	2.96815	81.6	35.2	5.5	1.0
3369.2	2.96806	84.2	39.1	9.0	1.5
3369.3	2.96798	89.5	46.0	15.3	1.9
3369.4	2.96789	92.8	54.3	20.4	2.5
3369.5	2.96780	94.3	62.7	23.6	3.5
3369.6	2.96771	94.3	70.9	24.3	4.1
3369.7	2.96762	93.6	72.5	23.2	5.4
3369.8	2.96754	93.7	73.0	22.3	8.1
3369.9	2.96745	94.3	74.6	25.1	11.5
3370.0	2.96736	95.4	77.9	33.1	15.1
3370.1	2.96727	97.1	82.1	42.2	20.1
3370.2	2.96718	97.3	85.8	49.8	22.5
3370.3	2.96709	98.2	88.3	53.6	23.9
3370.4	2.96701	97.8	89.6	54.1	23.6
3370.5	2.96692	97.8	89.9	53.3	21.0
3370.6	2.96683	97.4	89.8	49.9	16.6
3370.7	2.96674	96.0	[illegible]	43.2	12.0
3370.8	2.96665	94.1	83.4	33.4	8.9
3370.9	2.96657	92.1	78.9	26.7	7.5
3371.0	2.96648	91.3	75.1	23.4	7.8
3371.1	2.96639	92.3	73.1	23.6	10.0
3371.2	2.96630	94.6	74.5	28.5	16.4
3371.3	2.96621	97.2	78.1	40.3	24.1
3371.4	2.96613	98.3	83.1	54.9	31.8

Table 6-2 (Cont'd)

Sam. No.		37	39	40	41
p(atm)		$7.37 \times 10^{-}$[illegible]	$9.67 \times 10^{-}$[illegible]	$2.01 \times 10^{-}$[illegible]	$2.00 \times 10^{-}$[illegible]
P_e(atm)		$1.32 \times 10^{-}$[illegible]	$9.89 \times 10^{-}$[illegible]	$2.80 \times 10^{-}$[illegible]	$9.76 \times 10^{-}$[illegible]
u(gm/cm^2)		$1.80 \times 10^{-}$[illegible]	$8.67 \times 10^{-}$[illegible]	1.39×10^{0}	1.38×10^{0}
ν (cm^{-1})	λ (micron)	T × 100	T × 100	T × 100	T × 100
3279.0	3.04971	95.9	56.7	7.6	0.6
3279.1	3.04962	86.8	55.2	10.1	0.7
3279.2	3.04952	90.1	64.2	14.7	0.8
3279.3	3.04943	93.5	66.8	19.0	1.0
3279.4	3.04934	95.4	70.6	21.4	1.2
3279.5	3.04925	96.5	71.2	23.0	1.4
3279.6	3.04915	95.5	68.1	20.4	1.7
3279.7	3.04906	92.3	61.1	16.6	1.9
3279.8	3.04897	84.1	41.6	9.7	1.6
3279.9	3.04887	74.1	39.8	6.2	0.9
3280.0	3.04878	68.7	32.9	5.1	0.6
3280.1	3.04868	75.8	37.0	4.9	0.5
3280.2	3.04859	79.1	32.1	6.0	0.7
3280.3	3.04850	89.1	40.1	9.0	1.1
3280.4	3.04841	93.2	55.3	11.7	1.4
3280.5	3.04832	96.8	65.6	14.6	2.0
3280.6	3.04822	95.5	72.9	17.8	3.6
3280.7	3.04813	95.7	77.1	22.4	6.2
3280.8	3.04804	96.4	81.4	29.1	10.4
3280.9	3.04794	97.8	85.1	37.5	14.5
3281.0	3.04785	98.4	88.2	46.0	20.2
3281.1	3.04776	98.7	90.3	56.3	25.2
3281.2	3.04767	98.7	91.8	61.9	29.4
3281.3	3.04757	98.6	92.8	64.9	30.5
3281.4	3.04748	98.8	93.2	66.1	32.5
3281.5	3.04739	99.4	93.5	66.9	33.9
3281.6	3.04729	99.7	93.8	67.1	34.1
3281.7	3.04720	99.2	94.0	66.7	33.9
3281.8	3.04711	99.4	93.8	66.3	33.0
3281.9	3.04702	99.4	93.5	65.0	31.3
3282.0	3.04692	99.0	94.1	62.4	29.0
3282.1	3.04683	98.6	92.3	60.4	25.8
3282.2	3.04674	98.5	90.1	55.7	21.5
3282.3	3.04664	98.5	87.5	49.4	17.4
3282.4	3.04655	98.3	84.0	43.7	13.2
3282.5	3.04646	98.1	79.3	38.1	8.8
3282.6	3.04637	97.1	71.3	30.9	4.7
3282.7	3.04627	94.6	63.3	21.4	2.7
3282.8	3.04618	74.9	55.7	12.1	2.0
3282.9	3.04609	67.7	44.4	7.8	1.5
3283.0	3.04599	69.6	36.0	7.2	1.0
3283.1	3.04590	78.7	33.6	9.0	0.7
3283.2	3.04581	88.7	37.4	12.3	0.6
3283.3	3.04572	91.7	48.8	16.4	0.4
3283.4	3.04562	92.9	60.9	16.9	0.4
3283.5	3.04553	90.5	62.6	14.6	0.4
3283.6	3.04544	86.4	57.4	11.1	0.4
3283.7	3.04535	96.0	57.3	8.4	0.4
3283.8	3.04525	86.5	54.9	7.3	0.6
3283.9	3.04516	88.4	53.7	7.5	0.8
3284.0	3.04507	84.3	52.3	8.3	1.0
3284.1	3.04497	[illegible]	49.2	9.1	1.7
3284.2	3.04488	82.2	47.7	13.4	3.0
3284.3	3.04479	88.8	47.6	21.1	4.8
3284.4	3.04470	91.9	57.6	28.6	7.6
3284.5	3.04460	95.5	72.3	39.0	11.5
3284.6	3.04451	96.5	82.6	46.4	13.9
3284.7	3.04442	96.9	86.0	46.0	14.3
3284.8	3.04433	96.4	87.1	42.5	14.6
3284.9	3.04423	95.3	87.3	40.7	15.7
3285.0	3.04414	95.8	87.9	43.2	19.0
3285.1	3.04405	96.3	89.5	50.0	21.7
3285.2	3.04395	96.9	91.5	59.0	27.3
3285.3	3.04386	97.7	93.0	61.5	32.4
3285.4	3.04377	97.4	93.6	61.5	34.0
3285.5	3.04368	97.3	93.7	56.1	33.6
3285.6	3.04358	97.2	93.4	55.0	31.5
3285.7	3.04349	97.6	92.5	52.0	27.7
3285.8	3.04340	97.1	90.9	47.9	23.2
3285.9	3.04331	96.2	88.3	40.4	18.3
3286.0	3.04321	95.4	86.4	37.7	15.9
3286.1	3.04312	94.8	85.5	36.1	16.6
3286.2	3.04303	94.7	86.3	43.7	20.0
3286.3	3.04294	96.1	88.8	54.0	25.6
3286.4	3.04284	97.2	91.5	64.9	32.7
3286.5	3.04275	98.0	93.3	69.5	38.2
3286.6	3.04266	98.4	94.0	71.2	41.0
3286.7	3.04257	98.5	94.8	71.7	41.8
3286.8	3.04247	98.3	95.1	71.7	41.3
3286.9	3.04238	98.6	95.2	71.1	40.4
3287.0	3.04229	98.8	95.0	69.4	39.3
3287.1	3.04220	98.5	94.6	67.3	37.4
3287.2	3.04210	97.9	94.1	65.5	34.8
3287.3	3.04201	98.3	93.4	62.6	30.6
3287.4	3.04192	98.0	92.5	59.1	25.8

Sam. No.		37	39	40	41
p(atm)		$7.37 \times 10^{-}$[illegible]	$9.67 \times 10^{-}$[illegible]	$2.01 \times 10^{-}$[illegible]	$2.00 \times 10^{-}$[illegible]
P_e(atm)		$1.32 \times 10^{-}$[illegible]	$9.89 \times 10^{-}$[illegible]	$2.80 \times 10^{-}$[illegible]	$9.76 \times 10^{-}$[illegible]
u(gm/cm^2)		$1.80 \times 10^{-}$[illegible]	$8.67 \times 10^{-}$[illegible]	1.39×10^{0}	1.38×10^{0}
ν (cm^{-1})	λ (micron)	T × 100	T × 100	T × 100	T × 100
3297.5	3.03260	66.8	33.3	[illegible]	0.0
3297.6	3.03251	70.5	27.2	[illegible]	[illegible]
3297.7	3.03242	79.2	25.1	3.1	[illegible]
3297.8	3.03232	80.0	29.1	3.6	0.2
3297.9	3.03223	86.5	36.8	4.1	0.4
3298.0	3.03214	91.8	40.1	4.7	0.9
3298.1	3.03205	81.2	40.7	5.8	[illegible]
3298.2	3.03196	86.2	41.6	9.2	1.9
3298.3	3.03186	90.1	46.4	15.4	3.8
3298.4	3.03177	94.9	55.4	23.5	6.4
3298.5	3.03168	97.0	67.5	34.7	9.9
3298.6	3.03159	98.0	78.8	43.6	15.1
3298.7	3.03150	98.4	86.2	[illegible]	20.4
3298.8	3.03141	98.4	89.4	58.7	25.4
3298.9	3.03132	98.7	91.3	62.5	29.1
3299.0	3.03122	97.9	92.5	64.1	31.8
3299.1	3.03113	98.0	93.2	64.4	33.9
3299.2	3.03104	98.4	93.6	63.9	35.1
3299.3	3.03095	98.7	93.9	63.3	35.4
3299.4	3.03085	98.9	93.9	63.0	35.2
3299.5	3.03076	98.3	93.8	62.3	34.0
3299.6	3.03067	98.2	93.3	60.2	31.1
3299.7	3.03058	98.4	92.0	55.6	26.7
3299.8	3.03049	97.8	90.0	49.9	21.6
3299.9	3.03039	96.9	86.9	[illegible]	15.4
3300.0	3.03030	95.4	82.7	34.5	11.2
3300.1	3.03021	91.7	76.5	26.8	7.7
3300.2	3.03012	89.1	70.6	21.6	5.4
3300.3	3.03003	88.5	66.3	16.7	4.6
3300.4	3.02994	90.0	64.2	14.7	4.5
3300.5	3.02984	92.3	66.7	16.7	6.1
3300.6	3.02975	94.3	72.7	22.3	10.0
3300.7	3.02966	96.1	78.1	31.4	16.6
3300.8	3.02957	97.4	84.6	43.9	24.1
3300.9	3.02948	98.3	90.4	58.9	31.7
3301.0	3.02939	98.9	93.2	68.2	39.2
3301.1	3.02929	99.0	94.8	71.4	45.6
3301.2	3.02920	98.9	95.5	73.4	49.5
3301.3	3.02911	98.5	96.1	75.6	52.4
3301.4	3.02902	98.7	96.5	76.8	54.7
3301.5	3.02893	98.6	96.8	77.5	56.2
3301.6	3.02883	98.6	97.0	78.4	56.7
3301.7	3.02874	98.9	97.2	78.4	56.8
3301.8	3.02865	99.3	97.2	76.1	56.4
3301.9	3.02856	99.3	97.1	77.5	55.9
3302.0	3.02847	99.0	96.9	76.8	54.7
3302.1	3.02838	99.4	96.6	76.3	52.7
3302.2	3.02828	99.5	96.2	75.6	50.6
3302.3	3.02819	98.9	95.4	74.2	48.6
3302.4	3.02810	98.7	95.0	71.7	44.9
3302.5	3.02801	98.5	93.1	67.2	38.5
3302.6	3.02792	98.1	91.1	60.2	31.6
3302.7	3.02783	97.8	88.3	53.6	24.6
3302.8	3.02773	97.1	84.1	45.3	17.7
3302.9	3.02764	95.2	78.2	37.0	11.3
3303.0	3.02755	92.4	70.6	[illegible]	7.3
3303.1	3.02746	[illegible]	64.0	19.2	5.0
3303.2	3.02737	86.9	57.8	11.6	3.4
3303.3	3.02728	84.0	54.5	10.5	3.1
3303.4	3.02718	85.9	55.9	13.3	4.6
3303.5	3.02709	90.8	62.6	19.2	8.1
3303.6	3.02700	94.9	72.1	25.6	12.2
3303.7	3.02691	97.4	82.0	32.9	18.8
3303.8	3.02681	98.3	88.5	46.2	26.1
3303.9	3.02673	98.6	91.9	58.5	33.2
3304.0	3.02663	99.0	93.8	65.7	39.1
3304.1	3.02654	99.4	94.5	69.1	42.1
3304.2	3.02645	99.4	95.1	69.5	43.7
3304.3	3.02636	99.2	95.3	67.8	45.0
3304.4	3.02627	98.7	95.5	66.0	46.2
3304.5	3.02618	98.4	95.7	66.1	47.4
3304.6	3.02608	98.5	95.9	67.7	48.9
3304.7	3.02599	98.8	96.2	70.5	51.3
3304.8	3.02590	98.7	96.5	73.6	53.3
3304.9	3.02581	99.1	96.8	75.1	54.9
3305.0	3.02572	99.4	96.9	75.3	55.8
3305.1	3.02563	99.2	97.0	75.4	55.8
3305.2	3.02554	99.3	97.1	75.7	55.5
3305.3	3.02544	99.3	97.2	76.1	55.8
3305.4	3.02535	99.3	97.2	76.6	56.0
3305.5	3.02526	99.3	97.2	76.9	56.0
3305.6	3.02517	99.3	97.2	76.6	55.9
3305.7	3.02508	99.3	97.1	76.0	55.5
3305.8	3.02499	99.4	96.7	74.7	54.5
3305.9	3.02489	99.0	96.6	73.2	53.1

Sam. No.		37	39	40	41
p(atm)		$7.37 \times 10^{-}$[illegible]	$9.67 \times 10^{-}$[illegible]	$2.01 \times 10^{-}$[illegible]	$2.00 \times 10^{-}$[illegible]
P_e(atm)		$1.32 \times 10^{-}$[illegible]	$9.89 \times 10^{-}$[illegible]	$2.80 \times 10^{-}$[illegible]	$9.76 \times 10^{-}$[illegible]
u(gm/cm^2)		$1.80 \times 10^{-}$[illegible]	$8.67 \times 10^{-}$[illegible]	1.39×10^{0}	1.38×10^{0}
ν (cm^{-1})	λ (micron)	T × 100	T × 100	T × 100	T × 100
3316.0	3.01568	100.6	96.0	75.2	49.3
3316.1	3.01559	100.5	95.9	74.7	48.5
3316.2	3.01550	100.5	95.7	74.0	47.4
3316.3	3.01541	100.7	95.1	72.2	45.1
3316.4	3.01532	100.6	94.2	69.5	40.9
3316.5	3.01523	100.3	92.8	66.9	35.7
3316.6	3.01514	100.0	90.1	63.7	30.2
3316.7	3.01505	99.9	85.6	57.9	22.3
3316.8	3.01495	99.4	79.1	48.2	15.1
3316.9	3.01486	97.7	71.7	37.7	9.4
3317.0	3.01477	94.6	64.2	27.7	6.2
3317.1	3.01468	90.2	57.7	19.8	3.5
3317.2	3.01459	85.3	56.3	15.6	3.4
3317.3	3.01450	85.9	61.7	14.9	4.3
3317.4	3.01441	89.0	71.6	16.7	6.7
3317.5	3.01432	93.0	80.5	21.0	10.0
3317.6	3.01423	96.3	85.9	29.5	13.6
3317.7	3.01414	97.8	89.0	36.6	16.8
3317.8	3.01405	98.5	89.0	43.9	19.2
3317.9	3.01395	98.6	87.6	46.5	19.2
3318.0	3.01386	98.4	84.9	47.6	17.4
3318.1	3.01377	97.7	80.7	41.7	13.7
3318.2	3.01368	96.5	76.4	34.1	9.6
3318.3	3.01359	94.2	73.7	23.1	6.7
3318.4	3.01350	92.8	72.9	17.1	6.2
3318.5	3.01341	92.8	76.1	16.6	7.4
3318.6	3.01332	93.8	80.6	20.1	11.0
3318.7	3.01323	95.6	85.2	27.6	17.3
3318.8	3.01314	97.6	89.3	41.7	25.5
3318.9	3.01305	99.1	93.1	54.3	34.7
3319.0	3.01296	99.6	94.6	64.6	42.8
3319.1	3.01286	100.4	95.6	71.6	48.7
3319.2	3.01277	100.9	96.2	75.0	52.8
3319.3	3.01268	100.7	96.7	76.0	55.2
3319.4	3.01259	99.4	97.0	76.1	56.5
3319.5	3.01250	99.9	97.1	76.3	57.3
3319.6	3.01241	100.1	97.1	76.1	57.6
3319.7	3.01232	100.1	96.9	75.5	56.9
3319.8	3.01223	100.1	96.4	74.2	55.1
3319.9	3.01214	100.4	95.5	72.0	51.2
3320.0	3.01205	100.1	94.0	67.6	45.5
3320.1	3.01196	99.2	92.2	60.5	39.4
3320.2	3.01187	98.5	90.5	54.5	32.2
3320.3	3.01178	98.3	90.3	50.4	30.4
3320.4	3.01169	98.3	91.3	50.6	32.7
3320.5	3.01159	98.4	93.0	56.6	36.8
3320.6	3.01150	99.2	95.0	64.2	43.2
3320.7	3.01141	99.9	96.2	72.5	50.1
3320.8	3.01132	100.1	96.5	76.2	55.2
3320.9	3.01123	100.0	96.6	77.7	57.9
3321.0	3.01114	100.0	96.8	78.3	59.2
3321.1	3.01105	100.2	97.0	78.2	59.4
3321.2	3.01096	100.3	96.8	77.9	58.5
3321.3	3.01087	100.7	96.5	77.2	57.0
3321.4	3.01078	100.7	96.3	74.6	54.4
3321.5	3.01069	100.5	95.9	71.7	51.4
3321.6	3.01060	100.1	95.4	68.4	48.1
3321.7	3.01051	100.4	94.7	64.6	44.1
3321.8	3.01042	100.2	94.1	61.9	39.9
3321.9	3.01033	100.0	93.6	61.7	37.5
3322.0	3.01023	99.9	92.7	60.5	35.4
3322.1	3.01014	99.8	91.2	58.2	32.2
3322.2	3.01005	99.6	88.6	55.5	28.1
3322.3	3.00996	99.4	85.4	52.6	23.2
3322.4	3.00987	99.2	80.7	46.7	17.7
3322.5	3.00978	98.6	73.5	42.8	12.5
3322.6	3.00969	96.8	66.1	32.2	8.0
3322.7	3.00960	92.7	57.5	22.4	4.7
3322.8	3.00951	85.6	50.0	14.6	3.1
3322.9	3.00942	80.9	45.8	9.5	2.6
3323.0	3.00933	80.2	46.2	7.2	2.2
3323.1	3.00924	83.7	52.7	7.5	2.5
3323.2	3.00915	89.6	66.6	12.4	3.7
3323.3	3.00906	94.2	76.6	19.4	5.4
3323.4	3.00897	95.7	81.0	26.9	7.4
3323.5	3.00888	96.6	82.9	33.5	9.1
3323.6	3.00879	96.9	80.9	35.6	9.3
3323.7	3.00870	96.5	78.7	31.7	8.2
3323.8	3.00860	95.3	76.2	30.4	6.3
3323.9	3.00851	94.6	73.6	26.8	4.3
3324.0	3.00842	93.6	71.8	22.4	3.3
3324.1	3.00833	93.5	66.8	21.2	2.8
3324.2	3.00824	92.8	60.1	20.3	2.3
3324.3	3.00815	89.1	53.3	18.6	1.9
3324.4	3.00806	84.6	48.1	15.6	1.7

Sam. No.		37	39	40	41
p(atm)		$7.37 \times 10^{-}$[illegible]	$9.67 \times 10^{-}$[illegible]	$2.01 \times 10^{-}$[illegible]	$2.00 \times 10^{-}$[illegible]
P_e(atm)		$1.32 \times 10^{-}$[illegible]	$9.89 \times 10^{-}$[illegible]	$2.80 \times 10^{-}$[illegible]	$9.76 \times 10^{-}$[illegible]
u(gm/cm^2)		$1.80 \times 10^{-}$[illegible]	$8.67 \times 10^{-}$[illegible]	1.39×10^{0}	1.38×10^{0}
ν (cm^{-1})	λ (micron)	T × 100	T × 100	T × 100	T × 100
3334.5	2.99895	71.9	50.4	7.7	1.6
3334.6	2.99886	64.3	34.9	4.7	1.1
3334.7	2.99877	63.7	29.5	[illegible]	0.9
3334.8	2.99868	71.6	23.7	5.7	[illegible]
3334.9	2.99859	82.7	27.0	10.3	[illegible]
3335.0	2.99850	91.6	37.6	15.3	1.5
3335.1	2.99841	94.9	53.1	21.5	2.7
3335.2	2.99832	96.6	67.3	30.0	4.0
3335.3	2.99823	97.3	76.6	37.5	5.7
3335.4	2.99814	97.5	81.5	41.1	7.5
3335.5	2.99805	97.3	83.4	43.2	8.3
3335.6	2.99796	97.2	84.2	43.8	8.1
3335.7	2.99787	97.2	84.1	42.7	6.6
3335.8	2.99778	96.3	82.6	40.3	5.5
3335.9	2.99769	96.7	78.3	35.4	3.6
3336.0	2.99760	96.5	75.2	29.7	2.1
3336.1	2.99751	95.7	70.1	23.8	1.4
3336.2	2.99742	94.0	62.4	17.5	1.1
3336.3	2.99733	90.4	51.7	11.5	1.0
3336.4	2.99724	82.4	41.5	8.0	0.6
3336.5	2.99715	64.7	28.2	4.8	0.4
3336.6	2.99706	52.7	18.7	2.6	0.3
3336.7	2.99697	43.6	14.0	2.2	0.3
3336.8	2.99688	46.9	14.9	2.5	0.3
3336.9	2.99679	57.9	20.4	3.0	0.6
3337.0	2.99670	71.7	31.6	4.4	1.4
3337.1	2.99661	84.2	47.5	7.1	2.7
3337.2	2.99652	91.3	62.4	12.5	4.8
3337.3	2.99643	94.2	72.7	19.1	7.5
3337.4	2.99634	[illegible]	80.1	25.5	10.9
3337.5	2.99625	96.5	84.7	31.8	14.9
3337.6	2.99616	96.7	88.0	39.4	18.7
3337.7	2.99608	97.6	89.6	47.3	22.6
3337.8	2.99599	97.3	90.9	53.9	26.1
3337.9	2.99590	98.3	91.7	56.5	28.8
3338.0	2.99581	98.3	92.1	61.8	30.5
3338.1	2.99572	97.7	92.3	64.7	30.8
3338.2	2.99563	98.3	92.1	65.0	29.2
3338.3	2.99554	98.1	93.4	64.3	22.9
3338.4	2.99545	98.2	91.7	61.7	17.7
3338.5	2.99536	98.3	83.4	57.0	12.4
3338.6	2.99527	97.7	79.3	50.3	9.8
3338.7	2.99518	97.0	77.4	42.4	8.4
3338.8	2.99509	95.4	78.8	33.9	10.6
3338.9	2.99500	93.8	82.6	27.7	14.6
3339.0	2.99491	95.0	87.0	24.5	19.5
3339.1	2.99482	95.1	89.7	24.9	26.6
3339.2	2.99473	95.0	[illegible]	29.0	30.3
3339.3	2.99464	96.4	91.6	36.6	29.0
3339.4	2.99455	97.1	89.9	44.5	26.7
3339.5	2.99446	97.5	86.0	53.0	21.5
3339.6	2.99437	98.2	77.1	58.4	14.4
3339.7	2.99428	98.3	70.1	54.4	[illegible]
3339.8	2.99419	97.5	62.2	53.7	7.7
3339.9	2.99410	95.7	53.8	45.7	9.2
3340.0	2.99401	[illegible]	62.9	36.1	12.8
3340.1	2.99392	88.6	75.1	27.6	18.9
3340.2	2.99383	86.1	84.0	21.4	24.5
3340.3	2.99374	87.2	88.4	21.9	27.2
3340.4	2.99365	90.4	90.3	29.4	27.3
3340.5	2.99356	94.3	90.5	38.9	25.4
3340.6	2.99347	97.3	89.0	48.3	22.1
3340.7	2.99338	98.2	85.4	55.0	16.9
3340.8	2.99330	98.3	81.5	57.7	12.0
3340.9	2.99321	98.0	78.3	56.2	9.1
3341.0	2.99312	97.3	76.5	51.0	9.0
3341.1	2.99303	96.0	76.8	42.5	10.6
3341.2	2.99294	93.6	80.2	34.8	13.5
3341.3	2.99285	92.3	83.6	28.9	16.1
3341.4	2.99276	92.6	86.0	27.5	16.9
3341.5	2.99267	93.9	86.3	31.7	14.3
3341.6	2.99258	95.6	83.2	37.6	10.9
3341.7	2.99249	97.1	78.4	45.9	8.4
3341.8	2.99240	97.4	72.7	46.2	6.7
3341.9	2.99231	97.1	67.5	41.0	6.2
3342.0	2.99222	95.0	66.0	33.8	7.4
3342.1	2.99213	91.6	68.0	27.3	9.5
3342.2	2.99204	89.4	74.1	22.0	12.9
3342.3	2.99195	88.6	80.8	21.4	16.0
3342.4	2.99186	90.8	85.0	24.8	17.4
3342.5	2.99177	93.8	85.6	32.3	18.4
3342.6	2.99168	96.2	86.0	39.6	20.1
3342.7	2.99159	97.0	87.0	44.0	23.9
3342.8	2.99150	96.6	88.6	43.8	30.2
3342.9	2.99141	96.2	91.3	43.2	38.6

Sam. No.		37	39	40	41
p(atm)		$7.37 \times 10^{-}$[illegible]	$9.67 \times 10^{-}$[illegible]	$2.01 \times 10^{-}$[illegible]	$2.00 \times 10^{-}$[illegible]
P_e(atm)		$1.32 \times 10^{-}$[illegible]	$9.89 \times 10^{-}$[illegible]	$2.80 \times 10^{-}$[illegible]	$9.76 \times 10^{-}$[illegible]
u(gm/cm^2)		$1.80 \times 10^{-}$[illegible]	$8.67 \times 10^{-}$[illegible]	1.39×10^{0}	1.38×10^{0}
ν (cm^{-1})	λ (micron)	T × 100	T × 100	T × 100	T × 100
3353.0	2.98240	84.7	90.5	49.8	16.4
3353.1	2.98231	93.6	87.5	42.4	9.4
3353.2	2.98223	91.9	83.1	39.8	[illegible]
3353.3	2.98214	91.5	[illegible]	23.5	[illegible]
3353.4	2.98205	89.7	71.8	16.4	[illegible]
3353.5	2.98196	87.2	67.5	[illegible]	[illegible]
3353.6	2.98187	85.6	64.6	9.7	1.6
3353.7	2.98178	85.9	61.9	8.8	1.6
3353.8	2.98169	87.0	59.7	9.6	1.9
3353.9	2.98160	90.2	56.6	14.2	2.4
3354.0	2.98151	94.2	57.0	19.5	3.0
3354.1	2.98143	[illegible]	62.3	23.8	3.3
3354.2	2.98134	95.4	69.3	25.7	3.2
3354.3	2.98125	94.2	[illegible]	26.2	[illegible]
3354.4	2.98116	93.3	75.0	21.4	2.7
3354.5	2.98107	93.7	75.6	18.3	2.4
3354.6	2.98098	[illegible]	74.6	16.7	2.4
3354.7	2.98089	[illegible]	73.9	19.7	2.5
3354.8	2.98080	[illegible]	[illegible]	22.8	3.8
3354.9	2.98071	95.3	75.6	27.6	[illegible]
3355.0	2.98063	[illegible]	75.7	29.5	3.7
3355.1	2.98054	[illegible]	[illegible]	28.4	[illegible]
3355.2	2.98045	[illegible]	[illegible]	[illegible]	[illegible]
3355.3	2.98036	[illegible]	[illegible]	18.8	2.1
3355.4	2.98027	74.6	61.2	10.5	[illegible]
3355.5	2.98018	64.5	56.2	6.7	[illegible]
3355.6	2.98009	[illegible]	47.1	4.5	[illegible]
3355.7	2.98000	[illegible]	43.4	[illegible]	[illegible]
3355.8	2.97991	[illegible]	[illegible]	[illegible]	[illegible]
3355.9	2.97982	[illegible]	[illegible]	2.7	[illegible]
3356.0	2.97974	84.7	21.6	3.1	[illegible]
3356.1	2.97965	93.2	25.6	4.3	[illegible]
3356.2	2.97956	96.8	23.8	[illegible]	[illegible]
3356.3	2.97947	96.8	30.7	[illegible]	[illegible]
3356.4	2.97938	96.6	40.5	10.5	[illegible]
3356.5	2.97929	93.9	51.1	[illegible]	3.7
3356.6	2.97921	92.1	57.0	10.3	[illegible]
3356.7	2.97912	86.2	63.6	[illegible]	[illegible]
3356.8	2.97903	78.2	65.1	[illegible]	[illegible]
3356.9	2.97894	70.2	59.7	5.5	[illegible]
3357.0	2.97885	67.1	55.1	[illegible]	0.7
3357.1	2.97876	76.6	47.8	3.1	[illegible]
3357.2	2.97867	79.7	34.8	2.6	[illegible]
3357.3	2.97858	89.6	[illegible]	4.2	0.7
3357.4	2.97850	94.7	26.3	6.4	3.9
3357.5	2.97841	[illegible]	29.1	[illegible]	1.9
3357.6	2.97832	98.4	40.1	[illegible]	3.8
3357.7	2.97823	99.5	59.2	25.0	6.7
3357.8	2.97814	98.9	65.7	32.5	8.6
3357.9	2.97805	99.3	76.5	40.7	17.9
3358.0	2.97796	99.5	81.5	45.1	13.9
3358.1	2.97787	99.6	86.3	48.3	15.5
3358.2	2.97778	99.7	86.6	51.0	18.1
3358.3	2.97770	99.6	88.1	52.9	[illegible]
3358.4	2.97761	100.0	88.9	54.6	13.5
3358.5	2.97752	99.4	89.2	55.9	14.7
3358.6	2.97743	99.3	89.4	54.7	17.3
3358.7	2.97734	99.3	89.2	52.7	16.1
3358.8	2.97725	99.0	88.6	50.4	12.4
3358.9	2.97717	98.7	87.3	46.1	9.4
3359.0	2.97708	98.3	85.4	39.2	6.8
3359.1	2.97699	97.0	[illegible]	[illegible]	4.1
3359.2	2.97690	93.9	76.9	24.7	2.4
3359.3	2.97681	87.3	69.6	17.3	1.7
3359.4	2.97672	79.0	60.2	11.3	1.3
3359.5	2.97663	74.2	51.0	7.1	[illegible]
3359.6	2.97654	76.7	[illegible]	4.7	0.7
3359.7	2.97646	80.5	34.4	3.8	0.5
3359.8	2.97637	86.2	34.6	4.5	0.4
3359.9	2.97628	90.2	[illegible]	[illegible]	0.4
3360.0	2.97619	85.6	45.2	5.3	0.4
3360.1	2.97610	84.3	47.7	5.2	0.7
3360.2	2.97601	82.0	45.6	6.3	0.8
3360.3	2.97592	84.2	44.9	6.8	0.9
3360.4	2.97584	89.6	49.4	[illegible]	1.1
3360.5	2.97575	93.7	55.6	16.3	1.4
3360.6	2.97566	96.2	64.3	19.7	1.6
3360.7	2.97557	97.2	71.5	23.3	1.7
3360.8	2.97548	98.2	74.8	24.5	2.0
3360.9	2.97539	96.6	75.2	24.0	1.7
3361.0	2.97530	97.8	73.3	21.4	1.0
3361.1	2.97522	97.3	69.4	17.7	[illegible]
3361.2	2.97513	96.1	63.6	13.1	0.2
3361.3	2.97504	93.3	55.9	6.4	[illegible]
3361.4	2.97495	85.0	46.5	3.9	[illegible]

Table 6-2 (Cont'd)

Sam. No.		[illegible]	39	60	61
p(atm)		[illegible]	[illegible]	[illegible]	[illegible]
P_e(atm)		[illegible]	[illegible]	[illegible]	[illegible]
w(gm/cm^2)		[illegible]	[illegible]	[illegible]	[illegible]
ν (cm^{-1})	λ (micron)	T × 100	T × 100	T × 100	T × 100
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Sam. No.		[illegible]	39	60	61
p(atm)		[illegible]	[illegible]	[illegible]	[illegible]
P_e(atm)		[illegible]	[illegible]	[illegible]	[illegible]
w(gm/cm^2)		[illegible]	[illegible]	[illegible]	[illegible]
ν (cm^{-1})	λ (micron)	T × 100	T × 100	T × 100	T × 100
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Sam. No.		[illegible]	39	60	61
p(atm)		[illegible]	[illegible]	[illegible]	[illegible]
P_e(atm)		[illegible]	[illegible]	[illegible]	[illegible]
w(gm/cm^2)		[illegible]	[illegible]	[illegible]	[illegible]
ν (cm^{-1})	λ (micron)	T × 100	T × 100	T × 100	T × 100
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Sam. No.		[illegible]	39	60	61
p(atm)		[illegible]	[illegible]	[illegible]	[illegible]
P_e(atm)		[illegible]	[illegible]	[illegible]	[illegible]
w(gm/cm^2)		[illegible]	[illegible]	[illegible]	[illegible]
ν (cm^{-1})	λ (micron)	T × 100	T × 100	T × 100	T × 100
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Sam. No.		[illegible]	39	60	61
p(atm)		[illegible]	[illegible]	[illegible]	[illegible]
P_e(atm)		[illegible]	[illegible]	[illegible]	[illegible]
w(gm/cm^2)		[illegible]	[illegible]	[illegible]	[illegible]
ν (cm^{-1})	λ (micron)	T × 100	T × 100	T × 100	T × 100
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

2850.5	4.980	5.303	2943.0	-0.008	0.664	19.289	22.848	3035.5	3.567	15.602	62.510	81.465	3128.0	10.700	41.435	115.700	191.862
2851.0	5.046	5.366	2943.5	-0.013	0.664	19.434	23.021	3036.0	3.667	15.999	62.764	81.956	3128.5	10.017	41.510	116.060	192.316
2851.5	5.090	5.421	2944.0	-0.015	0.664	19.557	23.171	3036.5	3.628	16.117	63.270	82.419	3129.0	10.030	41.575	116.273	192.673
2852.0	5.122	5.459	2944.5	-0.018	0.664	19.680	23.323	3037.0	3.629	16.160	63.476	82.703	3129.5	10.042	41.590	116.413	192.966
2852.5	5.152	5.496	2945.0	-0.021	0.665	19.849	23.513	3037.5	3.633	16.195	63.677	83.113	3130.0	10.046	41.619	116.596	193.252
2853.0	5.174	5.525	2945.5	-0.024	0.669	19.991	23.703	3038.0	3.635	16.215	63.814	83.360	3130.5	10.952	41.648	116.769	193.900
2853.5	5.194	5.556	2946.0	-0.022	0.676	20.195	23.943	3038.5	3.634	16.227	63.890	83.544	3131.0	10.957	41.670	116.911	193.920
2854.0	5.216	5.589	2946.5	-0.015	0.716	20.428	24.285	3039.0	3.636	16.236	63.981	83.716	3131.5	10.962	41.723	117.136	194.336
2854.5	5.247	5.630	2947.0	-0.017	0.721	20.558	24.462	3039.5	3.630	16.247	64.056	83.875	3132.0	10.970	41.807	117.412	194.786
2855.0	5.318	5.706	2947.5	-0.020	0.721	20.687	24.617	3040.0	3.635	16.255	64.126	84.113	3132.5	10.984	42.001	117.817	195.270
2855.5	[illegible]	5.766	2948.0	-0.022	0.721	20.831	24.782	3040.5	3.633	16.262	64.181	84.161	3133.0	11.066	42.410	118.382	195.776
2856.0	[illegible]	5.846	2948.5	-0.026	0.721	20.956	24.934	3041.0	3.631	16.269	64.245	84.267	3133.5	11.207	42.700	118.706	196.270
2856.5	[illegible]	5.907	2949.0	-0.028	0.721	21.105	25.094	3041.5	3.631	16.275	64.316	84.396	3134.0	11.236	42.935	119.167	196.746
2857.0	[illegible]	5.937	2949.5	-0.030	0.721	21.249	25.257	3042.0	3.628	16.281	64.388	84.530	3134.5	11.247	43.015	119.401	197.100
2857.5	5.522	5.965	2950.0	-0.032	0.721	21.364	25.388	3042.5	3.627	16.286	64.459	84.660	3135.0	11.256	43.063	119.790	197.562
2858.0	5.556	6.007	2950.5	-0.033	0.721	21.480	25.523	3043.0	3.625	16.295	64.588	84.837	3135.5	11.256	43.092	119.912	197.868
2858.5	5.573	6.039	2951.0	-0.037	0.721	21.593	25.658	3043.5	3.624	16.303	64.667	84.965	3136.0	11.257	43.127	120.149	198.127
2859.0	5.632	6.103	2951.5	-0.039	0.721	21.703	25.796	3044.0	3.623	16.309	64.751	85.124	3136.5	11.261	43.129	120.253	198.611
2859.5	5.656	6.142	2952.0	-0.042	0.721	21.812	25.921	3044.5	3.622	16.317	64.865	85.268	3137.0	11.262	43.137	120.360	198.613
2860.0	5.664	6.167	2952.5	-0.043	0.721	21.919	26.056	3045.0	3.619	16.327	64.959	85.453	3137.5	11.261	43.144	120.498	198.768
2860.5	5.672	6.194	2953.0	-0.042	0.723	22.039	26.205	3045.5	3.616	16.336	65.020	85.591	3138.0	11.261	43.149	120.526	198.930
2861.0	5.690	6.234	2953.5	-0.038	0.739	22.264	26.482	3046.0	3.613	16.343	65.097	85.731	3138.5	11.260	43.152	120.600	199.006
2861.5	5.709	6.270	2954.0	-0.032	0.773	22.512	26.801	3046.5	3.610	16.356	65.175	85.869	3139.0	11.259	43.157	120.782	199.283
2862.0	5.732	6.310	2954.5	0.003	0.913	22.867	27.232	3047.0	3.607	16.359	65.254	86.061	3139.5	11.262	43.160	120.866	199.515
2862.5	5.759	6.356	2955.0	0.006	0.949	23.057	27.503	3047.5	3.607	16.371	65.343	86.262	3140.0	11.262	43.170	121.029	199.791
2863.0	5.801	6.412	2955.5	0.015	0.996	23.305	27.866	3048.0	3.610	16.391	65.460	86.516	3140.5	11.264	43.197	121.171	199.960
2863.5	5.829	6.457	2956.0	0.039	1.084	23.614	28.256	3048.5	3.846	16.430	65.642	86.880	3141.0	11.264	43.251	121.270	100.120
2864.0	5.866	6.507	2956.5	0.049	1.132	23.874	28.625	3049.0	3.895	16.563	65.981	87.315	3141.5	11.264	43.287	121.396	100.303
2864.5	5.940	6.610	2957.0	0.063	1.187	24.154	29.006	3049.5	3.947	16.911	66.457	87.860	3142.0	11.265	43.225	121.475	100.540
2865.0	6.033	6.731	2957.5	0.072	1.226	24.380	29.277	3050.0	3.951	17.272	66.900	88.302	3142.5	11.276	43.275	121.720	100.950
2865.5	6.068	6.791	2958.0	0.077	1.239	24.517	29.458	3050.5	3.953	17.376	67.191	88.746	3143.0	11.343	43.481	122.120	101.421
2866.0	6.110	6.856	2958.5	0.087	1.265	24.714	29.720	3051.0	3.957	17.413	67.400	89.112	3143.5	11.355	43.561	122.361	101.786
2866.5	6.136	6.908	2959.0	0.090	1.283	24.855	29.899	3051.5	3.957	17.455	67.614	89.462	3144.0	11.356	43.576	122.466	101.976
2867.0	6.167	6.965	2959.5	0.092	1.291	24.976	30.048	3052.0	3.957	17.475	67.725	89.690	3144.5	11.356	43.586	122.549	102.136
2867.5	6.233	7.044	2960.0	0.093	1.300	25.095	30.196	3052.5	3.959	17.499	67.906	89.876	3145.0	11.357	43.587	122.618	102.272
2868.0	6.260	7.095	2960.5	0.095	1.310	25.229	30.368	3053.0	3.957	17.522	68.064	90.233	3145.5	11.358	43.597	122.705	102.416
2868.5	6.324	7.179	2961.0	0.098	1.326	25.398	30.604	3053.5	3.957	17.537	68.161	90.442	3146.0	11.360	43.601	122.881	102.562
2869.0	6.345	7.222	2961.5	0.121	1.414	25.741	31.026	3054.0	3.958	17.553	68.206	90.663	3146.5	11.361	43.606	122.873	102.680
2869.5	6.369	7.264	2962.0	0.151	1.542	26.109	31.462	3054.5	3.958	17.572	68.303	90.925	3147.0	11.363	43.611	122.901	102.695
2870.0	6.384	7.299	2962.5	0.151	1.573	26.282	31.723	3055.0	3.960	17.605	68.545	91.255	3147.5	11.367	43.616	123.076	102.990
2870.5	6.397	7.340	2963.0	0.150	1.586	26.428	31.917	3055.5	3.978	17.695	68.868	91.695	3148.0	11.376	43.621	123.190	103.100
2871.0	6.433	7.396	2963.5	0.149	1.598	26.574	32.103	3056.0	4.039	17.963	69.304	92.106	3148.5	11.373	43.626	123.303	103.330
2871.5	6.495	7.487	2964.0	0.149	1.610	26.717	32.290	3056.5	4.228	18.337	69.792	92.605	3149.0	11.374	43.636	123.370	103.461
2872.0	6.555	7.558	2964.5	0.156	1.628	26.907	32.532	3057.0	4.313	18.676	70.272	93.177	3149.5	11.375	43.636	123.473	103.666
2872.5	6.577	7.600	2965.0	0.157	1.645	27.061	32.750	3057.5	4.357	18.867	70.696	93.657	3150.0	11.375	43.637	123.546	103.762
2873.0	6.600	7.638	2965.5	0.160	1.667	27.237	33.019	3058.0	4.366	18.930	70.926	94.666	3150.5	11.376	43.642	123.629	103.960
2873.5	6.639	7.682	2966.0	0.197	1.780	27.580	33.448	3058.5	4.371	18.966	71.101	94.432	3151.0	11.378	43.663	123.770	104.201
2874.0	6.654	7.714	2966.5	0.238	1.945	27.926	33.885	3059.0	4.373	19.001	71.263	94.756	3151.5	11.432	43.777	124.115	104.666
2874.5	6.664	7.748	2967.0	0.244	1.989	28.175	34.239	3059.5	4.376	19.076	71.906	95.101	3152.0	11.437	43.837	124.336	105.003
2875.0	6.674	7.791	2967.5	0.246	2.017	28.397	34.537	3060.0	4.467	19.337	71.926	95.670	3152.5	11.441	43.890	124.637	105.414
2875.5	6.702	7.835	2968.0	0.251	2.066	28.657	34.968	3060.5	4.509	19.521	72.317	96.139	3153.0	11.444	43.948	124.872	105.697
2876.0	6.731	7.884	2968.5	0.263	2.114	28.906	35.240	3061.0	4.515	19.576	72.546	96.543	3153.5	11.446	43.966	125.041	105.915
2876.5	6.759	7.932	2969.0	0.263	2.135	29.079	35.478	3061.5	4.523	19.640	72.825	96.957	3154.0	11.446	43.966	125.120	106.066
2877.0	6.783	7.975	2969.5	0.265	2.170	29.312	35.806	3062.0	4.525	19.675	72.907	97.286	3154.5	11.446	43.975	125.207	106.170
2877.5	6.901	8.011	2970.0	0.276	2.225	29.548	36.105	3062.5	4.525	19.707	73.162	97.627	3155.0	11.447	43.975	125.207	106.300
2878.0	6.575	8.059	2970.5	0.276	2.247	29.765	36.347	3063.0	4.527	19.768	73.395	98.005	3155.5	11.440	43.981	125.426	106.509
2878.5	6.848	8.102	2971.0	0.274	2.264	29.899	36.556	3063.5	4.530	19.822	73.623	98.450	3156.0	11.450	43.990	125.590	106.679
2879.0	6.867	8.150	2971.5	0.273	2.282	30.050	36.762	3064.0	4.551	19.909	74.031	98.937	3156.5	11.451	43.995	125.667	106.809
2879.5	6.936	8.246	2972.0	0.272	2.300	30.216	36.996	3064.5	4.753	20.376	74.518	99.433	3157.0	11.450	43.999	125.716	106.919
2880.0	7.090	8.438	2972.5	0.273	2.326	30.390	37.287	3065.0	4.844	20.752	74.900	99.920	3157.5	11.450	44.002	125.785	107.031
2880.5	7.135	8.514	2973.0	0.281	2.404	30.689	37.712	3065.5	4.861	20.927	75.403	100.422	3158.0	11.450	44.009	125.879	107.150
2881.0	7.153	8.553	2973.5	0.377	2.674	31.135	38.200	3066.0	4.889	21.099	75.825	100.916	3158.5	11.440	44.000	125.956	107.270
2881.5	7.181	8.593	2974.0	0.385	2.791	31.457	38.630	3066.5	4.952	21.339	76.290	101.416	3159.0	11.450	44.011	126.042	107.413
2882.0	7.205	8.632	2974.5	0.396	2.860	31.722	39.031	3067.0	5.096	21.686	76.770	101.912	3159.5	11.450	44.016	126.131	107.561
2882.5	7.219	8.666	2975.0	0.434	3.025	32.115	39.506	3067.5	5.229	22.001	77.240	102.480	3160.0	11.450	44.016	126.200	107.652
2883.0	7.242	8.708	2975.5	0.467	3.217	32.515	39.957	3068.0	5.238	22.290	77.504	102.880	3160.5	11.450	44.017	126.265	107.762
2883.5	7.274	8.752	2976.0	0.488	3.255	32.700	40.247	3068.5	5.239	22.310	77.705	103.290	3161.0	11.451	44.019	126.331	107.872
2884.0	7.297	8.790	2976.5	0.488	3.278	32.870	40.491	3069.0	5.239	22.344	77.952	103.626	3161.5	11.450	44.021	126.390	107.980
2884.5	7.319	8.828	2977.0	0.489	3.300	33.025	40.739	3069.5	5.236	22.373	78.092	103.904	3162.0	11.451	44.023	126.470	108.127
2885.0	7.343	8.866	2977.5	0.492	3.336	33.270	41.071	3070.0	5.235	22.394	78.197	104.139	3162.5	11.452	44.031	126.626	108.320
2885.5	7.366	8.904	2978.0	0.549	3.504	33.591	41.534	3070.5	5.233	22.411	78.287	104.332	3163.0	11.454	44.040	126.721	108.400
2886.0	7.389	8.937	2978.5	0.581	3.670	33.944	41.977	3071.0	5.231	22.425	78.370	104.517	3163.5	11.455	44.063	126.827	108.651
2886.5	7.409	8.961	2979.0	0.583	3.710	34.150	42.303	3071.5	5.228	22.437	78.456	104.692	3164.0	11.467	44.069	127.000	108.963
2887.0	7.428	8.982	2979.5	0.584	3.740	34.344	42.596	3072.0	5.228	22.448	78.531	104.850	3164.5	11.473	44.116	127.063	109.306
2887.5	7.454	9.011	2980.0	0.586	3.780	34.539	42.916	3072.5	5.228	22.456	78.606	105.021	3165.0	11.474	44.136	127.366	109.629
2888.0	7.475	9.034	2980.5	0.644	3.975	34.931	43.379	3073.0	5.230	22.469	78.686	105.189	3165.5	11.477	44.150	127.766	109.872
2888.5	7.495	9.060	2981.0	0.666	4.104	35.249	43.822	3073.5	5.232	22.480	78.770	105.355	3166.0	11.478	44.167	127.928	110.103
2889.0	7.516	9.083	2981.5	0.687	4.209	35.574	44.243	3074.0	5.232	22.494	78.857	105.541	3166.5	11.482	44.189	128.071	110.369
2889.5	7.549	9.128	2982.0	0.687	4.237	35.740	44.511	3074.5	5.232	22.901	78.957	105.680	3167.0	11.486	44.218	128.339	110.716
2890.0	7.605	9.202	2982.5	0.693	4.272	35.956	44.818	3075.0	5.233	22.912	79.029	105.874	3167.5	11.488	44.263	128.488	111.111
2890.5	7.696	9.320	2983.0	0.694	4.311	36.160	45.118	3075.5	5.233	22.925	79.134	106.000	3168.0	11.536	44.372	128.995	111.970
2891.0	7.744	9.380	2983.5	0.694	4.328	36.323	45.351	3076.0	5.235	22.961	79.238	106.303	3168.5	11.550	44.473	129.267	111.096
2891.5	7.792	9.429	2984.0	0.699	4.360	36.522	45.655	3076.5	5.235	22.963	79.366	106.572	3169.0	11.552	44.562	129.615	112.273
2892.0	7.816	9.464	2984.5	0.732	4.475	36.877	46.096	3077.0	5.240	22.996	79.966	106.920	3169.5	11.590	44.586	129.766	112.717
2892.5	7.892	9.519	2985.0	0.735	4.512	37.044	46.391	3077.5	5.260	22.718	79.079	107.386	3170.0	11.619	44.765	130.201	113.100
2893.0	7.902	9.607	2985.5	0.737	4.526	37.156	46.588	3078.0	5.362	23.005	80.366	107.670	3170.5	11.629	44.816	130.400	113.560
2893.5	8.011	9.792	2986.0	0.737	4.536	37.260	46.771	3078.5	5.440	23.206	80.777	108.373	3171.0	11.632	44.841	130.721	113.873
2894.0	8.262	10.145	2986.5	0.736	4.548	37.381	46.985	3079.0	5.456	23.420	81.143	108.863	3171.5	11.635	44.856	130.900	114.162
2894.5	8.367	10.286	2987.0	0.737	4.581	37.566	47.290	3079.5	5.530	23.666	81.600	109.360	3172.0	11.636	44.866	131.000	114.203
2895.0	8.405	10.339	2987.5	0.795	4.754	37.965	47.760	3080.0	5.764	24.113	82.000	109.690	3172.5	11.636	44.873	131.196	114.500
2895.5	8.432	10.374	2988.0	0.842	4.982	38.339	48.241	3080.5	5.862	24.330	82.588	110.356	3173.0	11.638	44.891	131.316	114.808
2896.0	8.458	10.404	2988.5	0.879	5.107	38.771	48.720	3081.0	5.818	24.481	82.876	110.866	3173.5	11.644	44.898	131.572	115.130
2896.5	8.488	10.435	2989.0	0.907	5.266	39.065	49.170	3081.5	5.940	24.795	83.347	111.300	3174.0	11.666	44.961	131.793	115.360
2897.0	8.520	10.464	2989.5	0.911	5.310	39.266	49.567	3082.0	6.001	25.066	83.703	111.842	3174.5	11.668	44.968	131.867	115.666
2897.5	8.552	10.492	2990.0	0.916	5.355	39.464	49.823	3082.5	6.040	25.253	84.207	112.337	3175.0	11.667	45.013	131.132	116.090
2898.0	8.582	10.518	2990.5	0.914	5.372	39.566	50.017	3083.0	6.169	25.503	84.670	112.820	3175.5	11.671	45.072	132.022	116.420
2898.5	8.602	10.539	2991.0	0.915	5.387	39.672	50.214	3083.5	6.183	25.725	84.967	113.201	3176.0	11.676	45.110	132.636	116.792
2899.0	8.625	10.559	2991.5	0.918	5.420	39.846	50.492	3084.0	6.190	25.707	85.170	113.607	3176.5	11.680	45.150	132.840	117.172
2899.5	8.666	10.603	2992.0	0.960	5.565	40.203	50.937	3084.5	6.195	25.795	85.315	113.872	3177.0	11.684	45.211	133.106	117.612
2900.0	8.697	10.631	2992.5	0.987	5.704	40.566	51.407	3085.0	6.199	25.817	85.420	114.097	3177.5	11.688	45.344	133.400	118.000

Table 6-3 $\int_{\nu_1}^{\nu} A(\nu)\,d\nu$

2808.0			0.	[illegible]
2808.5			[illegible]	[illegible]
2809.0			0.215	[illegible]
2809.5			0.277	[illegible]
2810.0			0.333	[illegible]
2810.5			[illegible]	[illegible]
2811.0			[illegible]	[illegible]
2811.5			[illegible]	[illegible]
2812.0			[illegible]	[illegible]
2812.5			[illegible]	[illegible]
2813.0			[illegible]	[illegible]
2813.5			1.015	1.017
2814.0			1.150	1.167
2814.5			1.270	1.260
2815.0			1.330	1.301
2815.5			1.419	1.495
2816.0			1.486	1.564
2816.5			1.510	1.596
2817.0			1.614	1.663
2817.5			1.712	1.792
2818.0			1.767	1.833
2818.5			1.780	1.864
2819.0			1.918	1.907
2819.5			1.978	[illegible]
2820.0			2.035	2.161
2820.5			2.079	2.211
2821.0			2.176	2.263
2821.5			2.182	2.326
2822.0			2.305	2.444
2822.5			2.379	2.535
2823.0			2.432	[illegible]
2823.5			2.471	2.836
2824.0			2.558	2.727
2824.5			2.726	[illegible]
2825.0			2.830	3.007
2825.5			[illegible]	3.066
2826.0			[illegible]	[illegible]
2826.5			2.411	3.108
2827.0			2.761	3.142
2827.5			3.179	3.262
2828.0			3.181	3.367
2828.5			3.230	3.422
2829.0			3.273	3.457
2829.5			3.295	3.488
2830.0			3.360	3.579
2830.5			3.461	3.606
2831.0			3.481	3.722
2831.5			3.497	3.744
2832.0			3.563	3.812
2832.5			3.613	3.871
2833.0			3.635	3.903
2833.5			3.653	3.931
2834.0			3.722	3.999
2834.5			3.767	4.052
2835.0			3.841	4.135
2835.5			3.914	4.222
2836.0			3.933	4.246
2836.5			3.958	4.276
2837.0			3.963	4.284
2837.5			3.969	4.295
2838.0			4.011	4.341
2838.5			4.097	4.424
2839.0			4.150	4.496
2839.5			4.168	4.509
2840.0			4.186	4.526
2840.5			4.205	4.546
2841.0			4.218	4.562
2841.5			4.253	4.598
2842.0			4.311	4.646
2842.5			4.329	4.656
2843.0			4.374	4.689
2843.5			4.403	4.710
2844.0			4.429	4.742
2844.5			4.511	4.821
2845.0			4.531	4.841
2845.5			4.627	4.926
2846.0			4.714	5.020
2846.5			4.766	5.080
2847.0			4.789	5.101
2847.5			4.813	5.118
2848.0			4.826	5.132
2848.5			4.949	5.151
2849.0			4.901	5.198
2849.5			4.950	5.256
2850.0			4.963	5.280

2900.5			8.726	10.151
2901.0			8.758	10.491
2901.5			8.798	[illegible]
2902.0			8.910	10.934
2902.5			9.021	11.047
2903.0			9.070	11.121
2903.5			9.110	11.140
2904.0			9.146	11.147
2904.5			9.223	11.169
2905.0			9.335	[illegible]
2905.5			9.376	11.491
2906.0			9.409	11.547
2906.5			9.488	11.626
2907.0			9.570	11.770
2907.5			9.650	11.844
2908.0			9.701	11.904
2908.5			9.771	11.976
2909.0			9.826	12.036
2909.5			9.877	12.091
2910.0			9.967	12.222
2910.5			[illegible]	[illegible]
2911.0			10.087	12.326
2911.5			10.153	12.412
2912.0			10.276	12.583
2912.5			10.456	12.782
2913.0			10.602	[illegible]
2913.5			10.645	13.003
2914.0			10.735	[illegible]
2914.5			10.790	[illegible]
2915.0			10.863	13.187
2915.5			10.976	[illegible]
2916.0			10.990	[illegible]
2916.5			11.062	13.350
2917.0			11.139	13.416
2917.5			11.216	13.479
2918.0			11.296	13.546
2918.5			11.360	13.619
2919.0			11.486	13.747
2919.5			11.621	13.876
2920.0			11.752	13.946
2920.5			11.782	14.012
2921.0			11.873	14.088
2921.5			11.975	14.187
2922.0			12.076	14.287
2922.5			12.201	14.407
2923.0			12.302	14.504
2923.5			12.402	14.591
2924.0			12.506	14.688
2924.5			12.616	14.798
2925.0			12.731	14.911
2925.5			12.861	15.040
2926.0			12.970	15.147
2926.5			13.096	15.265
2927.0			13.219	15.378
2927.5			13.331	15.466
2928.0			13.443	15.592
2928.5			13.561	15.705
2929.0		0.	13.693	15.834
2929.5		0.036	13.820	15.974
2930.0		0.016	14.078	16.252
2930.5		0.062	14.319	16.614
2931.0		0.081	14.529	16.863
2931.5		0.082	14.666	17.021
2932.0		0.067	14.797	17.174
2932.5		0.085	14.959	17.365
2933.0		0.112	15.202	17.723
2933.5		0.244	15.601	18.182
2934.0		0.366	15.979	18.606
2934.5		0.392	16.174	18.890
2935.0		0.422	16.402	19.252
2935.5		0.536	16.773	19.690
2936.0		0.564	16.996	19.985
2936.5		0.573	17.168	20.227
2937.0		0.612	17.440	20.598
2937.5		0.657	17.709	20.929
2938.0	0.	0.664	17.876	21.139
2938.5	-0.000	0.664	18.019	21.312
2939.0	-0.001	0.664	18.153	21.469
2939.5	-0.002	0.664	18.286	21.626
2940.0	0.001	0.664	18.434	21.824
2940.5	0.003	0.664	18.607	22.042
2941.0	0.001	0.664	18.744	22.207
2941.5	-0.000	0.664	18.881	22.363
2942.0	-0.003	0.664	19.025	22.532
2942.5	-0.004	0.664	19.158	22.694

2993.0	[illegible]	[illegible]	[illegible]	[illegible]
2993.5	[illegible]	[illegible]	[illegible]	[illegible]
2994.0	[illegible]	[illegible]	[illegible]	[illegible]
2994.5	[illegible]	[illegible]	[illegible]	[illegible]
2995.0	[illegible]	[illegible]	[illegible]	[illegible]
2995.5	[illegible]	[illegible]	[illegible]	[illegible]
2996.0	[illegible]	[illegible]	[illegible]	[illegible]
2996.5	[illegible]	[illegible]	[illegible]	[illegible]
2997.0	[illegible]	[illegible]	[illegible]	[illegible]
2997.5	[illegible]	[illegible]	[illegible]	[illegible]
2998.0	[illegible]	[illegible]	[illegible]	[illegible]
2998.5	[illegible]	[illegible]	[illegible]	[illegible]
2999.0	[illegible]	[illegible]	[illegible]	[illegible]
2999.5	[illegible]	[illegible]	[illegible]	[illegible]
3000.0	[illegible]	[illegible]	[illegible]	[illegible]
3000.5	[illegible]	[illegible]	[illegible]	[illegible]
3001.0	[illegible]	[illegible]	[illegible]	[illegible]
3001.5	[illegible]	[illegible]	[illegible]	[illegible]
3002.0	[illegible]	[illegible]	[illegible]	[illegible]
3002.5	[illegible]	[illegible]	[illegible]	[illegible]
3003.0	[illegible]	[illegible]	[illegible]	[illegible]
3003.5	[illegible]	[illegible]	[illegible]	[illegible]
3004.0	[illegible]	[illegible]	[illegible]	[illegible]
3004.5	[illegible]	[illegible]	[illegible]	[illegible]
3005.0	[illegible]	[illegible]	[illegible]	[illegible]
3005.5	[illegible]	[illegible]	[illegible]	[illegible]
3006.0	[illegible]	[illegible]	[illegible]	[illegible]
3006.5	[illegible]	[illegible]	[illegible]	[illegible]
3007.0	[illegible]	8.135	[illegible]	[illegible]
3007.5	1.511	[illegible]	[illegible]	60.130
3008.0	1.510	[illegible]	[illegible]	[illegible]
3008.5	1.511	[illegible]	[illegible]	[illegible]
3009.0	[illegible]	[illegible]	[illegible]	[illegible]
3009.5	1.510	[illegible]	[illegible]	[illegible]
3010.0	[illegible]	8.531	[illegible]	61.780
3010.5	1.726	8.965	48.790	[illegible]
3011.0	1.731	9.010	48.692	[illegible]
3011.5	1.757	9.162	[illegible]	[illegible]
3012.0	1.776	9.357	[illegible]	[illegible]
3012.5	1.929	9.641	[illegible]	64.101
3013.0	2.061	10.010	50.197	64.662
3013.5	2.100	[illegible]	50.792	[illegible]
3014.0	2.152	[illegible]	51.290	65.436
3014.5	2.155	10.521	51.433	[illegible]
3015.0	2.150	[illegible]	51.865	66.930
3015.5	2.227	10.799	52.119	66.917
3016.0	[illegible]	11.044	[illegible]	67.662
3016.5	[illegible]	[illegible]	52.697	[illegible]
3017.0	2.317	[illegible]	52.944	[illegible]
3017.5	2.317	11.161	52.962	[illegible]
3018.0	2.310	11.179	53.221	[illegible]
3018.5	2.314	[illegible]	53.096	[illegible]
3019.0	2.316	11.206	53.102	[illegible]
3019.5	2.315	11.217	53.015	[illegible]
3020.0	2.317	11.239	53.077	[illegible]
3020.5	2.317	[illegible]	53.533	[illegible]
3021.0	2.317	11.262	[illegible]	[illegible]
3021.5	2.320	11.286	53.753	69.762
3022.0	2.323	11.360	53.979	[illegible]
3022.5	[illegible]	11.577	54.614	[illegible]
3023.0	2.414	11.608	54.766	71.040
3023.5	2.419	11.710	54.923	71.366
3024.0	2.420	11.755	55.060	71.673
3024.5	2.419	11.785	55.213	71.915
3025.0	2.442	11.820	55.396	72.269
3025.5	2.430	11.992	55.726	[illegible]
3026.0	2.501	12.299	56.180	73.214
3026.5	[illegible]	12.471	56.562	[illegible]
3027.0	2.606	12.525	56.763	[illegible]
3027.5	2.665	12.561	56.905	[illegible]
3028.0	[illegible]	[illegible]	57.032	[illegible]
3028.5	[illegible]	12.616	57.106	[illegible]
3029.0	2.663	12.647	57.342	[illegible]
3029.5	2.663	12.692	57.536	[illegible]
3030.0	[illegible]	12.799	57.873	[illegible]
3030.5	2.652	13.011	58.320	[illegible]
3031.0	2.833	13.422	[illegible]	77.062
3031.5	2.961	13.756	59.292	77.550
3032.0	3.169	[illegible]	59.792	78.055
3032.5	3.225	14.551	[illegible]	[illegible]
3033.0	3.231	14.682	[illegible]	79.031
3033.5	3.236	14.775	60.876	79.561
3034.0	3.269	14.941	61.700	[illegible]
3034.5	3.400	15.320	61.769	[illegible]
3035.0	3.496	15.577	62.177	80.985

3085.5	[illegible]	[illegible]	[illegible]	[illegible]
3086.0	[illegible]	[illegible]	[illegible]	[illegible]
3086.5	[illegible]	[illegible]	[illegible]	[illegible]
3087.0	[illegible]	[illegible]	[illegible]	[illegible]
3087.5	[illegible]	[illegible]	[illegible]	[illegible]
3088.0	[illegible]	[illegible]	[illegible]	[illegible]
3088.5	[illegible]	[illegible]	[illegible]	[illegible]
3089.0	[illegible]	[illegible]	[illegible]	[illegible]
3089.5	[illegible]	[illegible]	[illegible]	[illegible]
3090.0	[illegible]	[illegible]	[illegible]	[illegible]
3090.5	[illegible]	[illegible]	[illegible]	[illegible]
3091.0	[illegible]	[illegible]	[illegible]	[illegible]
3091.5	[illegible]	[illegible]	[illegible]	[illegible]
3092.0	[illegible]	[illegible]	[illegible]	[illegible]
3092.5	[illegible]	[illegible]	[illegible]	[illegible]
3093.0	[illegible]	[illegible]	[illegible]	[illegible]
3093.5	[illegible]	[illegible]	[illegible]	[illegible]
3094.0	[illegible]	[illegible]	[illegible]	[illegible]
3094.5	[illegible]	[illegible]	[illegible]	[illegible]
3095.0	[illegible]	[illegible]	[illegible]	[illegible]
3095.5	[illegible]	[illegible]	[illegible]	[illegible]
3096.0	[illegible]	[illegible]	[illegible]	[illegible]
3096.5	[illegible]	[illegible]	[illegible]	[illegible]
3097.0	[illegible]	[illegible]	[illegible]	[illegible]
3097.5	[illegible]	[illegible]	[illegible]	[illegible]
3098.0	[illegible]	[illegible]	[illegible]	[illegible]
3098.5	[illegible]	[illegible]	[illegible]	[illegible]
3099.0	[illegible]	[illegible]	[illegible]	[illegible]
3099.5	[illegible]	[illegible]	[illegible]	[illegible]
3100.0	[illegible]	[illegible]	[illegible]	[illegible]
3100.5	[illegible]	[illegible]	[illegible]	[illegible]
3101.0	[illegible]	[illegible]	[illegible]	[illegible]
3101.5	[illegible]	[illegible]	[illegible]	[illegible]
3102.0	[illegible]	[illegible]	[illegible]	[illegible]
3102.5	[illegible]	[illegible]	[illegible]	[illegible]
3103.0	[illegible]	[illegible]	[illegible]	[illegible]
3103.5	[illegible]	[illegible]	[illegible]	[illegible]
3104.0	[illegible]	[illegible]	[illegible]	[illegible]
3104.5	[illegible]	[illegible]	[illegible]	[illegible]
3105.0	[illegible]	[illegible]	[illegible]	[illegible]
3105.5	[illegible]	[illegible]	[illegible]	[illegible]
3106.0	[illegible]	[illegible]	[illegible]	[illegible]
3106.5	[illegible]	[illegible]	[illegible]	[illegible]
3107.0	[illegible]	[illegible]	[illegible]	[illegible]
3107.5	[illegible]	[illegible]	[illegible]	[illegible]
3108.0	[illegible]	[illegible]	[illegible]	[illegible]
3108.5	[illegible]	[illegible]	[illegible]	[illegible]
3109.0	[illegible]	[illegible]	[illegible]	[illegible]
3109.5	[illegible]	[illegible]	[illegible]	[illegible]
3110.0	[illegible]	[illegible]	[illegible]	[illegible]
3110.5	[illegible]	[illegible]	[illegible]	[illegible]
3111.0	[illegible]	[illegible]	[illegible]	[illegible]
3111.5	[illegible]	[illegible]	[illegible]	[illegible]
3112.0	[illegible]	[illegible]	[illegible]	[illegible]
3112.5	[illegible]	[illegible]	[illegible]	[illegible]
3113.0	[illegible]	[illegible]	[illegible]	[illegible]
3113.5	[illegible]	[illegible]	[illegible]	[illegible]
3114.0	[illegible]	[illegible]	[illegible]	[illegible]
3114.5	[illegible]	[illegible]	[illegible]	[illegible]
3115.0	[illegible]	[illegible]	[illegible]	[illegible]
3115.5	[illegible]	[illegible]	[illegible]	[illegible]
3116.0	[illegible]	[illegible]	[illegible]	[illegible]
3116.5	[illegible]	[illegible]	[illegible]	[illegible]
3117.0	[illegible]	[illegible]	[illegible]	[illegible]
3117.5	[illegible]	[illegible]	[illegible]	[illegible]
3118.0	[illegible]	[illegible]	[illegible]	[illegible]
3118.5	[illegible]	[illegible]	[illegible]	[illegible]
3119.0	[illegible]	[illegible]	[illegible]	[illegible]
3119.5	[illegible]	[illegible]	[illegible]	[illegible]
3120.0	[illegible]	[illegible]	[illegible]	[illegible]
3120.5	[illegible]	[illegible]	[illegible]	[illegible]
3121.0	[illegible]	[illegible]	[illegible]	[illegible]
3121.5	[illegible]	[illegible]	[illegible]	[illegible]
3122.0	[illegible]	[illegible]	[illegible]	[illegible]
3122.5	[illegible]	[illegible]	[illegible]	[illegible]
3123.0	10.171	39.371	111.082	147.030
3123.5	10.206	39.620	112.191	147.346
3124.0	10.263	39.750	112.678	148.603
3124.5	10.293	39.870	112.776	148.669
3125.0	10.319	39.929	113.299	148.923
3125.5	10.366	40.169	113.900	149.617
3126.0	[illegible]	40.370	[illegible]	149.919
3126.5	[illegible]	[illegible]	[illegible]	[illegible]
3127.0	10.731	41.097	[illegible]	[illegible]
3127.5	10.781	41.346	115.366	151.390

Table 6-3 $\int_{\nu_1}^{\nu_2} A(\nu)\,d\nu$ (cont'd)

Table 6-4

Sam. No.		38	39
p(atm)		3.46 x $10^{-?}$	9.67 x $10^{-?}$
P_e(atm)		1.99 x $10^{-?}$	9.80 x $10^{-?}$
w(gm/cm²)		1.69 x $10^{-?}$	8.67 x 10^{-2}
ν (cm⁻¹)	λ (micron)	T x 100	T x 100
3556.5	2.01175	96.2	38.1
3556.6	2.01167	99.1	36.1
3556.7	2.01160	98.1	28.6
3556.8	2.01152	95.0	21.9
3556.9	2.01144	71.1	15.4
[illegible]	2.01136	96.4	9.7
3557.1	2.01129	84.1	6.2
3557.2	2.01120	84.8	4.5
3557.3	2.01112	87.9	4.6
3557.4	2.01104	97.1	5.9
3557.5	2.01096	96.6	8.4
3557.6	2.01088	96.5	11.9
3557.7	2.01080	98.1	16.4
3557.8	2.01071	98.4	19.4
3557.9	2.01065	98.9	22.5
3558.0	2.01057	96.4	25.9
3558.1	2.01049	98.7	28.3
3558.2	2.01042	99.5	30.2
3558.3	2.01033	99.4	32.7
3558.4	2.01025	99.7	36.7
3558.5	2.01017	99.3	36.2
3558.6	2.01009	99.5	36.9
3558.7	2.01001	99.3	36.9
3558.8	2.00994	99.2	35.7
3558.9	2.00986	98.6	37.2

Table 6-4 (Cont'd)

Sam. No.		38	39
p(atm)		5.46×10[illegible]	9.67×10[illegible]
P_e(atm)		1.99×10[illegible]	9.89×10[illegible]
u(gm/cm^2)		1.69×10[illegible]	8.67×10[illegible]
ν (cm^{-1})	λ (micron)	T × 100	T × 100
[illegible]	[illegible]	[illegible]	2.9
[illegible]	[illegible]	[illegible]	5.1
[illegible]	[illegible]	[illegible]	8.6
[illegible]	[illegible]	[illegible]	12.2
[illegible]	[illegible]	[illegible]	16.
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	11.6
[illegible]	[illegible]	[illegible]	12.6
[illegible]	[illegible]	[illegible]	15.1
[illegible]	[illegible]	[illegible]	22.6
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	17.5
[illegible]	[illegible]	[illegible]	13.9
[illegible]	[illegible]	[illegible]	10.5
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	3.6
[illegible]	[illegible]	[illegible]	2.7
[illegible]	[illegible]	[illegible]	1.6
[illegible]	[illegible]	[illegible]	1.2
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1.8
[illegible]	[illegible]	[illegible]	2.9
[illegible]	[illegible]	[illegible]	4.9
[illegible]	[illegible]	[illegible]	6.7
[illegible]	[illegible]	[illegible]	9.5
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	17.9
[illegible]	[illegible]	[illegible]	19.6
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	17.8
[illegible]	[illegible]	[illegible]	20.5
[illegible]	[illegible]	[illegible]	22.6
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	17.8
[illegible]	[illegible]	[illegible]	14.2
[illegible]	[illegible]	[illegible]	10.2
[illegible]	[illegible]	[illegible]	6.7
[illegible]	[illegible]	[illegible]	4.1
[illegible]	[illegible]	[illegible]	2.1
[illegible]	[illegible]	[illegible]	1.6
[illegible]	[illegible]	[illegible]	1.2
[illegible]	[illegible]	[illegible]	1.0
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	0.8
[illegible]	[illegible]	[illegible]	0.
[illegible]	[illegible]	[illegible]	0.6
[illegible]	[illegible]	[illegible]	0.7
[illegible]	[illegible]	[illegible]	1.2
[illegible]	[illegible]	[illegible]	2.0
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	6.0
[illegible]	[illegible]	[illegible]	4.3
[illegible]	[illegible]	[illegible]	4.9
[illegible]	[illegible]	[illegible]	13.7
[illegible]	[illegible]	[illegible]	11.1
[illegible]	[illegible]	[illegible]	10.9
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	13.9
[illegible]	[illegible]	[illegible]	11.0
[illegible]	[illegible]	[illegible]	19.0
[illegible]	[illegible]	[illegible]	15.6
[illegible]	[illegible]	[illegible]	14.8
[illegible]	[illegible]	[illegible]	20.5
[illegible]	[illegible]	[illegible]	21.9
[illegible]	[illegible]	[illegible]	22.6
[illegible]	[illegible]	[illegible]	21.0
[illegible]	[illegible]	[illegible]	14.6
[illegible]	[illegible]	[illegible]	15.5
[illegible]	[illegible]	[illegible]	12.3
[illegible]	[illegible]	[illegible]	9.0
[illegible]	[illegible]	[illegible]	5.9
[illegible]	[illegible]	[illegible]	3.6
[illegible]	[illegible]	[illegible]	2.2
[illegible]	[illegible]	[illegible]	1.5
[illegible]	[illegible]	[illegible]	1.6
[illegible]	[illegible]	[illegible]	1.4
[illegible]	[illegible]	[illegible]	1.4
[illegible]	[illegible]	[illegible]	1.6
[illegible]	[illegible]	[illegible]	1.1
[illegible]	[illegible]	[illegible]	1.1
[illegible]	[illegible]	[illegible]	[illegible]

Sam. No.		38	39
p(atm)		5.46×10[illegible]	9.67×10[illegible]
P_e(atm)		1.99×10[illegible]	9.89×10[illegible]
u(gm/cm^2)		1.69×10[illegible]	8.67×10[illegible]
ν (cm^{-1})	λ (micron)	T × 100	T × 100
[illegible]	[illegible]	85.5	0.4
[illegible]	[illegible]	[illegible]	0.4
[illegible]	2.78265	87.7	0.
[illegible]	2.78257	92.6	0.
[illegible]	2.78249	91.6	0.
[illegible]	2.78242	[illegible]	0.
[illegible]	2.78234	[illegible]	0.
[illegible]	2.78226	93.2	0.
[illegible]	[illegible]	94.7	0.
[illegible]	2.78211	95.6	0.
[illegible]	2.78203	[illegible]	0.
[illegible]	2.78195	97.1	0.
[illegible]	2.78187	95.6	0.
[illegible]	2.78180	96.1	0.
[illegible]	2.78172	91.7	0.
[illegible]	2.78164	94.4	0.
[illegible]	2.78156	[illegible]	0.
[illegible]	[illegible]	65.5	0.
[illegible]	2.78141	56.4	0.
[illegible]	2.78133	51.7	0.
[illegible]	2.78125	53.7	0.
[illegible]	[illegible]	61.5	0.
[illegible]	[illegible]	[illegible]	0.
[illegible]	[illegible]	[illegible]	0.
[illegible]	2.78094	85.8	0.
[illegible]	[illegible]	[illegible]	0.
[illegible]	[illegible]	77.4	0.
[illegible]	2.78071	75.5	0.
[illegible]	2.78064	[illegible]	0.
[illegible]	[illegible]	76.7	0.
[illegible]	2.78048	81.4	0.
[illegible]	[illegible]	71.6	0.
[illegible]	2.78033	66.8	0.
[illegible]	2.78025	70.1	0.
[illegible]	2.78017	[illegible]	0.
[illegible]	[illegible]	[illegible]	0.
[illegible]	2.78002	77.6	0.
[illegible]	2.77994	87.6	0.
[illegible]	[illegible]	77.6	0.
[illegible]	2.77979	[illegible]	0.4
[illegible]	2.77971	97.1	[illegible]
[illegible]	[illegible]	96.0	1.4
[illegible]	2.77955	96.0	1.8
[illegible]	[illegible]	96.6	2.1
[illegible]	[illegible]	41.3	2.2
[illegible]	2.77932	73.6	[illegible]
[illegible]	2.77924	[illegible]	2.1
[illegible]	2.77917	67.3	1.7
[illegible]	[illegible]	59.2	1.4
[illegible]	2.77901	72.7	1.1
[illegible]	2.77894	76.5	0.7
[illegible]	2.77886	[illegible]	0.4
[illegible]	2.77878	76.5	0.1
[illegible]	[illegible]	46.1	0.2
[illegible]	2.77863	47.4	0.1
[illegible]	2.77855	70.5	0.0
[illegible]	2.77847	49.2	0.
[illegible]	2.77840	47.7	0.
[illegible]	2.77832	[illegible]	0.
[illegible]	2.77824	[illegible]	0.
[illegible]	2.77816	60.2	0.
[illegible]	2.77809	[illegible]	0.
[illegible]	[illegible]	79.6	0.
[illegible]	2.77793	77.4	0.
[illegible]	[illegible]	77.2	0.
[illegible]	2.77778	75.3	0.
[illegible]	2.77770	76.5	0.
[illegible]	2.77762	82.7	0.
[illegible]	2.77755	87.5	0.
[illegible]	2.77747	89.2	0.
[illegible]	2.77739	69.6	0.
[illegible]	2.77731	76.6	0.
[illegible]	2.77724	81.3	0.
[illegible]	2.77716	65.1	0.
[illegible]	2.77709	75.5	0.
[illegible]	2.77701	96.5	0.
[illegible]	2.77693	99.1	0.
[illegible]	2.77685	69.2	0.
[illegible]	[illegible]	79.7	0.
[illegible]	2.77670	87.2	0.
[illegible]	2.77662	92.3	0.
[illegible]	2.77654	94.3	0.
[illegible]	[illegible]	95.7	0.
[illegible]	2.77639	97.6	0.
[illegible]	2.77631	96.6	0.

Sam. No.		38	39
p(atm)		5.46×10[illegible]	9.67×10[illegible]
P_e(atm)		1.99×10[illegible]	9.89×10[illegible]
u(gm/cm^2)		1.69×10[illegible]	8.67×10[illegible]
ν (cm^{-1})	λ (micron)	T × 100	T × 100
[illegible]	[illegible]	[illegible]	0.
[illegible]	[illegible]	59.2	0.
[illegible]	[illegible]	[illegible]	0.
[illegible]	[illegible]	52.7	0.
[illegible]	[illegible]	42.9	0.
[illegible]	2.76817	38.5	0.
[illegible]	2.76809	38.3	0.
[illegible]	2.76801	42.2	0.
[illegible]	2.76794	46.3	0.
[illegible]	2.76786	50.5	0.
[illegible]	[illegible]	[illegible]	0.
[illegible]	[illegible]	65.4	0.
[illegible]	[illegible]	72.4	0.
[illegible]	[illegible]	81.0	0.
[illegible]	[illegible]	[illegible]	0.
[illegible]	2.76740	41.0	0.
[illegible]	[illegible]	[illegible]	0.
[illegible]	[illegible]	33.6	0.
[illegible]	[illegible]	33.4	0.
[illegible]	[illegible]	[illegible]	0.
[illegible]	[illegible]	[illegible]	0.
[illegible]	[illegible]	79.9	0.
[illegible]	[illegible]	70.1	0.
[illegible]	[illegible]	[illegible]	0.
[illegible]	2.76671	49.0	0.
3614.5	2.76663	44.4	0.
[illegible]	2.76656	45.1	0.
[illegible]	2.76648	52.5	0.
[illegible]	2.76640	59.3	0.
[illegible]	2.76633	64.6	0.
[illegible]	2.76625	66.5	0
[illegible]	[illegible]	66.7	0.
3615.2	2.76610	64.0	0.
3615.3	2.76602	65.5	0.
3615.4	2.76595	69.4	0.
3615.5	2.76587	75.6	0.
3615.6	2.76579	80.1	0.
3615.7	2.76572	81.4	0.
3615.8	2.76564	82.7	0.
3615.9	2.76556	77.4	0.
3616.0	2.76549	89.0	0.
3616.1	2.76541	[illegible]	0.
3616.2	2.76533	94.6	0.
3616.3	2.76526	[illegible]	0.
3616.4	2.76518	96.4	0.
3616.5	2.76510	96.3	0.
3616.6	2.76503	96.1	0.
3616.7	2.76495	95.8	0.
3616.8	2.76488	95.4	0.
3616.9	2.76480	94.7	0.
3617.0	2.76472	94.0	0.
3617.1	2.76465	91.1	0.
3617.2	2.76457	84.5	0.
3617.3	2.76449	76.4	0.
3617.4	2.76442	64.4	0.
3617.5	2.76434	53.0	0.
3617.6	2.76426	43.0	0.
3617.7	2.76419	38.4	0.
3617.8	2.76411	39.1	0.
3617.9	2.76403	41.7	0.
3618.0	2.76396	[illegible]	0.
3618.1	2.76388	51.5	0.
3618.2	2.76381	66.6	0.
3618.3	2.76373	76.0	0.
3618.4	2.76365	83.0	0.
3618.5	2.76358	[illegible]	0.
3618.6	2.76350	90.3	0.
3618.7	2.76342	90.5	0.
3618.8	2.76335	[illegible]	0.
3618.9	2.76327	[illegible]	0.
3619.0	2.76319	84.1	0.
3619.1	2.76312	77.5	0.
3619.2	2.76304	66.2	0.
3619.3	2.76297	54.5	0.
3619.4	2.76289	41.7	0.
3619.5	2.76281	30.5	0.
3619.6	2.76274	27.1	0.
3619.7	2.76266	30.7	0.
3619.8	2.76259	[illegible]	0.
3619.9	2.76251	51.0	0.
3620.0	[illegible]	[illegible]	0.
3620.1	2.76235	[illegible]	0.
3620.2	[illegible]	78.6	0.
3620.3	2.76220	87.2	0.
3620.4	2.76213	90.4	0.

Sam. No.		38	39
p(atm)		5.46×10[illegible]	9.67×10[illegible]
P_e(atm)		1.99×10[illegible]	9.89×10[illegible]
u(gm/cm^2)		1.69×10[illegible]	8.67×10[illegible]
ν (cm^{-1})	λ (micron)	T × 100	T × 100
3630.5	2.75444	78.2	0.
3630.6	2.75437	66.3	0.
3630.7	2.75429	65.2	0.
3630.8	2.75421	59.2	0.
3630.9	2.75414	75.2	0.
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
3632.5	2.75292	[illegible]	0.
3632.6	2.75285	[illegible]	0.
3632.7	2.75277	[illegible]	0.
3632.8	2.75270	[illegible]	0.
3632.9	2.75262	[illegible]	0.
3633.0	2.75255	[illegible]	0.
3633.1	2.75247	[illegible]	0.
3633.2	2.75239	92.2	0.
3633.3	2.75232	96.6	0.
3633.4	2.75224	76.0	0.
3633.5	2.75217	66.9	0.
3633.6	2.75209	50.2	0.
3633.7	2.75202	31.3	0.
3633.8	2.75194	50.3	0.
3633.9	2.75186	57.1	0.
3634.0	2.75179	71.2	0.
3634.1	2.75171	92.2	0.
3634.2	2.75164	98.5	0.
3634.3	2.75156	92.5	0.
3634.4	2.75149	94.8	0.
3634.5	2.75141	95.2	0.
3634.6	2.75133	95.2	0.
3634.7	2.75126	94.8	0.
3634.8	2.75118	94.7	0.
3634.9	2.75111	94.5	0.
3635.0	2.75103	94.3	0.
3635.1	2.75096	94.3	0.
3635.2	2.75088	94.5	0.
3635.3	2.75080	94.7	0.
3635.4	2.75073	95.5	0.
3635.5	2.75065	96.4	0.
3635.6	2.75058	97.2	0.
3635.7	2.75050	97.6	0.
3635.8	2.75043	97.9	0.
3635.9	2.75035	98.1	0.
3636.0	2.75028	98.2	0.
3636.1	2.75020	97.0	0.
3636.2	2.75012	97.0	0.
3636.3	2.75005	98.1	0.
3636.4	2.74997	98.2	0.
3636.5	2.74990	98.1	0.
3636.6	2.74982	97.3	0.
3636.7	2.74975	97.6	0.
3636.8	2.74967	97.2	0.
3636.9	2.74959	96.8	0.
3637.0	2.74952	96.6	0.
3637.1	2.74944	96.2	0.
3637.2	2.74937	96.2	0.0
3637.3	2.74929	96.0	0.1
3637.4	2.74922	95.5	0.2
3637.5	2.74914	92.8	0.2
3637.6	2.74907	96.2	0.3
3637.7	2.74899	80.9	0.6
3637.8	2.74891	73.7	1.0
3637.9	2.74884	66.8	1.6
3638.0	2.74876	62.3	2.4
3638.1	2.74869	69.1	3.2
3638.2	2.74861	80.4	4.5
3638.3	2.74854	87.5	5.7
3638.4	2.74846	92.4	6.6
3638.5	2.74839	95.5	7.1
3638.6	2.74831	96.4	7.4
3638.7	2.74823	97.5	7.4
3638.8	2.74816	99.0	7.3
3638.9	2.74808	98.0	7.1

Sam. No.		38	39
p(atm)		5.46×10[illegible]	9.67×10[illegible]
P_e(atm)		1.99×10[illegible]	9.89×10[illegible]
u(gm/cm^2)		1.69×10[illegible]	8.67×10[illegible]
ν (cm^{-1})	λ (micron)	T × 100	T × 100
3649.0	2.74048	36.5	0.
3649.1	2.74040	26.4	0.
3649.2	2.74033	21.3	0.
3649.3	2.74025	20.3	0.
3649.4	2.74018	26.4	0.
3649.5	2.74010	36.7	0.
3649.6	2.74003	47.7	0.
3649.7	2.73995	54.9	0.
3649.8	2.73988	62.2	0.
3649.9	2.73980	74.5	0.
3650.0	2.73973	76.6	0.
3650.1	2.73965	75.4	0.
3650.2	2.73958	71.6	0.
3650.3	2.73950	[illegible]	0.
3650.4	2.73943	[illegible]	0.
3650.5	2.73935	42.1	0.
3650.6	2.73928	37.6	0.
3650.7	2.73920	36.2	0.
3650.8	2.73913	39.7	0.
3650.9	2.73905	43.2	0.
3651.0	2.73898	44.7	0.
3651.1	2.73890	46.3	0.
3651.2	2.73883	41.0	0.
3651.3	2.73875	35.0	0.
3651.4	2.73868	30.5	0.
3651.5	2.73860	42.8	0.
3651.6	2.73853	53.9	0.
3651.7	2.73845	65.0	0.
3651.8	2.73838	75.2	0.
3651.9	2.73830	80.3	0.
3652.0	2.73823	65.5	0.
3652.1	2.73815	91.0	0.
3652.2	2.73808	92.4	0.
3652.3	2.73800	93.3	0.
3652.4	2.73793	93.8	0.
3652.5	2.73785	93.4	0.
3652.6	2.73778	91.6	0.
3652.7	2.73770	89.0	0.
3652.8	2.73763	86.2	0.
3652.9	2.73755	84.7	0.
3653.0	2.73748	84.6	0.
3653.1	2.73740	87.7	0.
3653.2	2.73733	90.9	0.
3653.3	2.73725	94.2	0.
3653.4	2.73718	95.7	0.
3653.5	2.73710	96.6	0.
3653.6	2.73703	96.9	0.
3653.7	2.73695	97.0	0.
3653.8	2.73688	97.1	0.
3653.9	2.73680	97.2	0.
3654.0	2.73673	97.2	0.
3654.1	2.73665	97.1	0.
3654.2	2.73658	96.7	0.
3654.3	2.73650	96.5	0.
3654.4	2.73643	96.4	0.
3654.5	2.73635	96.3	0.
3654.6	2.73628	95.3	0.
3654.7	2.73620	95.5	0.
3654.8	2.73613	95.0	0.
3654.9	2.73605	95.0	0.
3655.0	2.73598	94.8	0.
3655.1	2.73590	94.7	0.
3655.2	2.73583	94.4	0.
3655.3	2.73575	93.5	0.
3655.4	2.73568	92.4	0.
3655.5	2.73560	91.3	0.
3655.6	2.73553	88.8	0.
3655.7	2.73545	85.4	0.
3655.8	2.73538	79.5	0.
3655.9	2.73530	70.5	0.
3656.0	2.73523	62.5	0.
3656.1	2.73515	51.4	0.
3656.2	2.73508	42.2	0.
3656.3	2.73501	27.5	0.
3656.4	2.73493	27.3	0.
3656.5	2.73486	33.4	0.
3656.6	2.73478	43.6	0.
3656.7	2.73471	56.0	0.
3656.8	2.73463	67.0	0.
3656.9	2.73456	76.6	0.
3657.0	2.73448	83.1	0.
3657.1	2.73441	86.7	0.
3657.2	2.73433	89.1	0.
3657.3	2.73426	92.1	0.
3657.4	2.73419	93.4	0.

Sam. No.		38	39
p(atm)		5.46×10[illegible]	9.67×10[illegible]
P_e(atm)		1.99×10[illegible]	9.89×10[illegible]
u(gm/cm^2)		1.69×10[illegible]	8.67×10[illegible]
ν (cm^{-1})	λ (micron)	T × 100	T × 100
3667.5	2.72665	95.8	8.5
3667.6	2.72658	95.6	7.5
3667.7	2.72650	95.3	8.5
3667.8	2.72643	94.4	5.4
3667.9	2.72635	93.5	4.0
3668.0	2.72628	[illegible]	4.2
3668.1	2.72621	89.5	3.5
3668.2	2.72613	86.0	3.1
3668.3	2.72606	79.9	2.7
3668.4	2.72598	[illegible]	2.5
3668.5	2.72591	59.3	2.3
3668.6	2.72584	46.5	2.1
3668.7	2.72576	37.6	1.7
3668.8	2.72569	32.9	1.4
3668.9	2.72561	37.6	1.2
3669.0	2.72554	46.4	[illegible]
3669.1	2.72546	59.6	1.0
3669.2	2.72539	69.0	0.9
3669.3	2.72532	76.4	0.8
3669.4	2.72524	82.9	0.9
3669.5	2.72517	83.8	[illegible]
3669.6	2.72509	83.4	0.9
3669.7	2.72502	80.5	0.9
3669.8	2.72494	77.3	0.8
3669.9	2.72487	74.1	0.8
3670.0	2.72480	69.5	0.7
3670.1	2.72472	66.4	0.6
3670.2	2.72465	63.7	0.5
3670.3	2.72457	58.1	0.4
3670.4	2.72450	49.2	0.3
3670.5	2.72442	38.5	0.2
3670.6	2.72435	27.9	0.1
3670.7	2.72428	20.9	0.1
3670.8	2.72420	16.7	0.1
3670.9	2.72413	21.5	0.0
3671.0	2.72405	29.7	0.
3671.1	2.72398	41.5	0.
3671.2	2.72390	53.4	0.
3671.3	2.72383	64.2	0.
3671.4	2.72376	73.3	0.
3671.5	2.72368	79.2	0.
3671.6	2.72361	83.7	0.
3671.7	2.72354	86.5	0.
3671.8	2.72346	89.4	0.
3671.9	2.72339	[illegible]	0.
3672.0	2.72331	[illegible]	0.
3672.1	2.72324	91.9	0.
3672.2	2.72316	92.9	0.
3672.3	2.72309	93.4	0.
3672.4	2.72301	93.8	0.
3672.5	2.72294	94.2	0.
3672.6	2.72287	94.4	0.
3672.7	2.72279	94.4	0.
3672.8	2.72272	94.5	0.
3672.9	2.72264	94.5	0.
3673.0	2.72257	94.5	0.
3673.1	2.72250	94.6	0.
3673.2	2.72242	94.6	0.
3673.3	2.72235	94.3	0.
3673.4	2.72227	93.8	0.
3673.5	2.72220	93.3	0.
3673.6	2.72213	92.7	0.
3673.7	2.72205	91.0	0.
3673.8	2.72198	89.1	0.
3673.9	2.72190	[illegible]	0.
3674.0	2.72183	77.8	0.
3674.1	2.72175	70.7	0.
3674.2	2.72168	64.0	0.
3674.3	2.72161	55.5	0.
3674.4	2.72153	46.3	0.
3674.5	2.72146	42.4	0.
3674.6	2.72138	37.1	0.
3674.7	2.72131	31.0	0.
3674.8	2.72124	23.6	0.
3674.9	2.72116	19.7	0.
3675.0	2.72109	18.9	0.
3675.1	2.72101	24.2	0.
3675.2	2.72094	30.4	0.
3675.3	2.72087	36.9	0.
3675.4	2.72079	46.5	0.
3675.5	2.72072	50.7	0.
3675.6	2.72064	49.2	0.
3675.7	2.72057	41.0	0.
3675.8	2.72050	31.4	0.
3675.9	2.72042	22.5	0.

3694.5	2.70673	91.8	0.
3694.6	2.70665	89.7	0.
3694.7	2.70658	89.6	0.
3694.8	2.70651	90.4	0.
3694.9	2.70643	92.0	0.
3695.0	2.70636	94.2	0.
3695.1	2.70629	95.7	0.
3695.2	2.70621	96.6	0.
3695.3	2.70614	97.0	0.
3695.4	2.70607	97.3	0.
3695.5	2.70599	97.4	0.
3695.6	2.70592	97.5	0.
3695.7	2.70585	97.3	0.
3695.8	2.70577	96.8	0.
3695.9	2.70570	94.1	0.
3696.0	2.70563	90.1	0.
3696.1	2.70555	84.6	0.
3696.2	2.70548	80.3	0.
3696.3	2.70541	77.3	0.
3696.4	2.70533	78.0	0.
3696.5	2.70526	90.8	0.
3696.6	2.70519	94.1	0.
3696.7	2.70512	89.3	0.
3696.8	2.70504	93.5	0.
3696.9	2.70497	95.5	0.
3697.0	2.70490	96.7	0.
3697.1	2.70482	97.6	0.
3697.2	2.70475	98.1	0.
3697.3	2.70468	98.1	0.
3697.4	2.70460	98.3	0.
3697.5	2.70453	97.9	0.
3697.6	2.70446	97.4	0.
3697.7	2.70438	96.9	0.
3697.8	2.70431	96.2	0.
3697.9	2.70424	95.6	0.
3698.0	2.70416	95.6	0.
3698.1	2.70409	96.5	0.4
3698.2	2.70402	97.5	1.0
3698.3	2.70395	98.2	1.5
3698.4	2.70387	98.6	1.8
3698.5	2.70380	98.8	2.1
3698.6	2.70373	98.7	2.3
3698.7	2.70365	98.5	2.4
3698.8	2.70358	98.2	2.4
3698.9	2.70351	97.5	2.2
3699.0	2.70343	96.9	1.8
3699.1	2.70336	93.4	1.3
3699.2	2.70329	93.1	0.9
3699.3	2.70321	93.2	0.4
3699.4	2.70314	94.5	0.4
3699.5	2.70307	95.8	0.2
3699.6	2.70299	97.1	0.2
3699.7	2.70292	97.6	0.2
3699.8	2.70285	97.9	0.4
3699.9	2.70278	98.0	0.8
3700.0	2.70270	98.1	1.7
3700.1	2.70263	98.0	2.6
3700.2	2.70256	98.0	3.5
3700.3	2.70248	97.9	4.0
3700.4	2.70241	97.7	4.5
3700.5	2.70234	97.6	5.0
3700.6	2.70226	96.9	5.0
3700.7	2.70219	96.3	4.7
3700.8	2.70212	95.6	4.2
3700.9	2.70205	94.4	3.7
3701.0	2.70197	91.7	3.3
3701.1	2.70190	86.8	3.2
3701.2	2.70183	80.7	3.7
3701.3	2.70175	70.7	4.5
3701.4	2.70168	60.3	5.6
3701.5	2.70161	49.3	6.4
3701.6	2.70153	41.1	7.0
3701.7	2.70146	[illegible]	7.3
3701.8	2.70139	[illegible]	7.0
3701.9	2.70132	45.5	6.5
3702.0	2.70124	56.1	5.5
3702.1	2.70117	64.2	4.2
3702.2	2.70110	72.2	3.1
3702.3	2.70102	82.0	2.5
3702.4	2.70095	83.7	2.0
3702.5	2.70088	85.2	1.6
3702.6	2.70080	86.7	1.5
3702.7	2.70073	89.3	1.4
3702.8	2.70066	92.0	1.4
3702.9	2.70059	94.5	1.3
3703.0	2.70051	96.0	1.3
3703.1	2.70044	97.0	1.3
3703.2	2.70037	97.2	1.3
3703.3	2.70029	97.3	1.2
3703.4	2.70022	97.4	1.0
3703.5	2.70015	97.3	0.8
3703.6	2.70008	97.4	0.6
3703.7	2.70000	97.6	0.3
3703.8	2.69993	97.8	0.2
3703.9	2.69986	98.3	0.1
3704.0	2.69978	98.4	0.0
3704.1	2.69971	98.5	0.
3704.2	2.69964	98.7	0.
3704.3	2.69957	98.8	0.
3704.4	2.69949	98.8	0.
3713.0	2.69324	66.6	0.
3713.1	2.69317	70.7	0.
3713.2	2.69309	74.7	0.
3713.3	2.69302	84.5	0.
3713.4	2.69295	88.1	0.
3713.5	2.69288	90.5	0.
3713.6	2.69280	92.1	0.
3713.7	2.69273	93.2	0.
3713.8	2.69266	94.1	0.
3713.9	2.69259	94.8	0.
3714.0	2.69251	95.2	0.
3714.1	2.69244	95.5	0.
3714.2	2.69237	95.5	0.
3714.3	2.69230	95.6	0.
3714.4	2.69222	94.2	0.
3714.5	2.69215	91.4	0.
3714.6	2.69208	90.2	0.
3714.7	2.69201	80.2	0.
3714.8	2.69193	75.4	0.
3714.9	2.69186	73.9	0.
3715.0	2.69179	75.0	0.
3715.1	2.69172	81.4	0.
3715.2	2.69165	86.6	0.
3715.3	2.69157	89.9	0.
3715.4	2.69150	93.4	0.
3715.5	2.69143	96.4	0.
3715.6	2.69136	97.0	0.
3715.7	2.69128	97.2	0.
3715.8	2.69121	97.1	0.
3715.9	2.69114	96.3	0.
3716.0	2.69107	95.1	0.
3716.1	2.69099	93.8	0.
3716.2	2.69092	92.7	0.
3716.3	2.69085	92.0	0.
3716.4	2.69078	91.4	0.
3716.5	2.69070	90.8	0.
3716.6	2.69063	90.5	0.
3716.7	2.69056	90.9	0.
3716.8	2.69049	92.2	0.
3716.9	2.69041	93.8	0.
3717.0	2.69034	95.0	0.
3717.1	2.69027	96.9	0.
3717.2	2.69020	97.5	0.
3717.3	2.69012	97.6	0.
3717.4	2.69005	97.5	0.
3717.5	2.68998	97.2	0.
3717.6	2.68991	96.5	0.
3717.7	2.68984	95.9	0.
3717.8	2.68976	95.3	0.
3717.9	2.68969	95.2	0.1
3718.0	2.68962	95.4	0.1
3718.1	2.68955	95.7	0.2
3718.2	2.68947	95.7	0.3
3718.3	2.68940	95.2	0.3
3718.4	2.68933	93.5	0.4
3718.5	2.68926	90.3	0.4
3718.6	2.68918	84.7	0.5
3718.7	2.68911	76.3	0.4
3718.8	2.68904	63.6	0.3
3718.9	2.68897	56.0	0.1
3719.0	2.68889	56.5	0.1
3719.1	2.68882	61.6	0.1
3719.2	2.68875	71.0	0.1
3719.3	2.68868	79.4	0.2
3719.4	2.68861	86.1	0.3
3719.5	2.68854	89.6	0.5
3719.6	2.68846	90.2	0.7
3719.7	2.68839	90.6	0.9
3719.8	2.68832	90.3	1.3
3719.9	2.68824	90.3	1.6
3720.0	2.68817	90.6	1.4
3720.1	2.68810	91.4	1.5
3720.2	2.68803	92.5	1.3
3720.3	2.68796	93.8	1.1
3720.4	2.68788	95.2	0.8
3720.5	2.68781	96.2	0.6
3720.6	2.68774	96.8	0.5
3720.7	2.68767	96.8	0.3
3720.8	2.68759	96.8	0.2
3720.9	2.68752	96.0	0.1
3721.0	2.68745	95.4	0.0
3721.1	2.68738	94.4	0.
3721.2	2.68731	92.9	0.
3721.3	2.68723	91.1	0.
3721.4	2.68716	88.5	0.
3721.5	2.68709	85.0	0.
3721.6	2.68702	79.4	0.
3721.7	2.68694	73.6	0.
3721.8	2.68687	67.7	0.
3721.9	2.68680	59.6	0.
3722.0	2.68673	45.3	0.
3722.1	2.68666	39.4	0.
3722.2	2.68658	41.1	0.
3722.3	2.68651	45.5	0.
3722.4	2.68644	53.7	0.
3722.5	2.68637	60.2	0.
3722.6	2.68629	65.4	0.
3722.7	2.68622	67.8	0.
3722.8	2.68615	69.7	0.
3722.9	2.68608	71.0	0.0
3731.5	2.67989	78.6	0.
3731.6	2.67982	70.1	0.
3731.7	2.67974	63.5	0.
3731.8	2.67967	52.8	0.
3731.9	2.67960	43.2	0.
3732.0	2.67953	25.1	0.
3732.1	2.67946	21.5	0.
3732.2	2.67938	24.4	0.
3732.3	2.67931	30.4	0.
3732.4	2.67924	41.1	0.
3732.5	2.67917	51.1	0.
3732.6	2.67910	60.1	0.
3732.7	2.67903	67.4	0.
3732.8	2.67895	73.5	0.
3732.9	2.67888	77.4	0.
3733.0	2.67881	81.1	0.
3733.1	2.67874	87.4	0.
3733.2	2.67867	89.4	0.
3733.3	2.67860	90.7	0.
3733.4	2.67852	91.1	0.
3733.5	2.67845	90.8	0.
3733.6	2.67838	90.2	0.
3733.7	2.67831	87.5	0.
3733.8	2.67824	83.5	0.
3733.9	2.67816	74.6	0.
3734.0	2.67809	67.1	0.
3734.1	2.67802	57.2	0.
3734.2	2.67795	49.1	0.
3734.3	2.67788	42.9	0.
3734.4	2.67781	36.4	0.
3734.5	2.67773	35.2	0.
3734.6	2.67766	32.2	0.
3734.7	2.67759	29.2	0.
3734.8	2.67752	26.6	0.
3734.9	2.67745	29.9	0.
3735.0	2.67738	33.6	0.
3735.1	2.67730	36.0	0.
3735.2	2.67723	36.6	0.
3735.3	2.67716	37.1	0.
3735.4	2.67709	36.4	0.
3735.5	2.67702	40.4	0.
3735.6	2.67695	47.7	0.
3735.7	2.67687	58.6	0.
3735.8	2.67680	67.8	0.
3735.9	2.67673	75.6	0.
3736.0	2.67666	78.7	0.
3736.1	2.67659	76.2	0.
3736.2	2.67652	74.1	0.
3736.3	2.67644	69.5	0.
3736.4	2.67637	63.7	0.
3736.5	2.67630	47.6	0.
3736.6	2.67623	35.6	0.
3736.7	2.67616	29.6	0.
3736.8	2.67609	32.9	0.
3736.9	2.67601	42.1	0.
3737.0	2.67594	54.1	0.
3737.1	2.67587	65.6	0.
3737.2	2.67580	74.6	0.
3737.3	2.67573	81.2	0.
3737.4	2.67566	83.7	0.
3737.5	2.67559	86.4	0.
3737.6	2.67551	84.1	0.
3737.7	2.67544	87.4	0.
3737.8	2.67537	86.8	0.
3737.9	2.67530	80.1	0.
3738.0	2.67523	73.3	0.
3738.1	2.67516	63.4	0.
3738.2	2.67508	54.2	0.
3738.3	2.67501	48.2	0.
3738.4	2.67494	46.6	0.
3738.5	2.67487	49.0	0.
3738.6	2.67480	62.7	0.
3738.7	2.67473	72.2	0.
3738.8	2.67465	77.9	0.
3738.9	2.67458	81.2	0.
3739.0	2.67451	82.6	0.
3739.1	2.67444	84.3	0.
3739.2	2.67437	86.8	0.
3739.3	2.67430	89.9	0.
3739.4	2.67423	91.4	0.
3739.5	2.67415	92.6	0.
3739.6	2.67408	92.7	0.
3739.7	2.67401	91.2	0.
3739.8	2.67394	89.3	0.
3739.9	2.67387	87.1	0.
3740.0	2.67380	84.3	0.
3740.1	2.67373	81.6	0.
3740.2	2.67365	78.9	0.
3740.3	2.67358	75.9	0.
3740.4	2.67351	73.3	0.
3740.5	2.67344	70.9	0.
3740.6	2.67337	66.8	0.
3740.7	2.67330	63.5	0.
3740.8	2.67322	60.4	0.
3740.9	2.67315	57.3	0.
3741.0	2.67308	54.2	0.
3741.1	2.67301	53.3	0.
3741.2	2.67294	55.7	0.
3741.3	2.67287	62.7	0.
3741.4	2.67280	70.6	0.
3750.0	2.66667	63.0	0.
3750.1	2.66660	66.5	0.
3750.2	2.66652	72.7	0.
3750.3	2.66645	75.3	0.
3750.4	2.66638	76.6	0.
3750.5	2.66631	77.0	0.
3750.6	2.66624	75.0	0.
3750.7	2.66617	71.1	0.
3750.8	2.66610	65.3	0.
3750.9	2.66603	64.2	0.
3751.0	2.66596	63.5	0.
3751.1	2.66588	63.9	0.
3751.2	2.66581	63.6	0.
3751.3	2.66574	62.6	0.
3751.4	2.66567	59.6	0.
3751.5	2.66560	56.1	0.
3751.6	2.66553	52.1	0.
3751.7	2.66546	47.5	0.
3751.8	2.66539	42.3	0.
3751.9	2.66532	27.0	0.
3752.0	2.66525	18.8	0.
3752.1	2.66517	13.1	0.
3752.2	2.66510	10.1	0.
3752.3	2.66503	13.0	0.
3752.4	2.66496	17.9	0.
3752.5	2.66489	26.7	0.
3752.6	2.66482	36.5	0.
3752.7	2.66475	44.3	0.
3752.8	2.66468	53.7	0.
3752.9	2.66461	60.8	0.
3753.0	2.66454	72.5	0.
3753.1	2.66446	79.6	0.
3753.2	2.66439	83.5	0.
3753.3	2.66432	84.0	0.
3753.4	2.66425	82.3	0.
3753.5	2.66418	76.3	0.
3753.6	2.66411	73.7	0.
3753.7	2.66404	70.0	0.
3753.8	2.66397	69.6	0.
3753.9	2.66390	71.7	0.
3754.0	2.66383	75.4	0.
3754.1	2.66375	80.3	0.
3754.2	2.66368	88.6	0.
3754.3	2.66361	90.6	0.
3754.4	2.66354	91.2	0.
3754.5	2.66347	91.1	0.
3754.6	2.66340	90.7	0.
3754.7	2.66333	90.6	0.
3754.8	2.66326	91.6	0.
3754.9	2.66319	92.2	0.
3755.0	2.66312	92.5	0.
3755.1	2.66305	91.6	0.
3755.2	2.66297	90.7	0.
3755.3	2.66290	88.8	0.
3755.4	2.66283	86.9	0.
3755.5	2.66276	86.9	0.
3755.6	2.66269	88.2	0.
3755.7	2.66262	89.7	0.
3755.8	2.66255	91.3	0.
3755.9	2.66248	91.3	0.
3756.0	2.66241	90.1	0.
3756.1	2.66234	87.3	0.
3756.2	2.66227	82.4	0.
3756.3	2.66219	77.0	0.
3756.4	2.66212	65.7	0.
3756.5	2.66205	52.0	0.
3756.6	2.66198	46.4	0.
3756.7	2.66191	51.1	0.
3756.8	2.66184	57.3	0.
3756.9	2.66177	68.3	0.
3757.0	2.66170	77.8	0.
3757.1	2.66163	86.2	0.
3757.2	2.66156	89.8	0.
3757.3	2.66149	91.6	0.
3757.4	2.66141	92.7	0.
3757.5	2.66134	93.5	0.
3757.6	2.66127	93.6	0.
3757.7	2.66120	92.2	0.
3757.8	2.66113	90.6	0.
3757.9	2.66106	88.9	0.
3758.0	2.66099	87.5	0.
3758.1	2.66092	87.5	0.
3758.2	2.66085	88.4	0.
3758.3	2.66078	89.6	0.
3758.4	2.66071	90.3	0.
3758.5	2.66064	90.0	0.
3758.6	2.66057	89.5	0.
3758.7	2.66049	79.5	0.
3758.8	2.66042	73.5	0.
3758.9	2.66035	69.9	0.
3759.0	2.66028	61.9	0.
3759.1	2.66021	64.2	0.
3759.2	2.66014	66.2	0.
3759.3	2.66007	68.0	0.
3759.4	2.66000	62.3	0.
3759.5	2.65993	59.4	0.
3759.6	2.65986	48.2	0.
3759.7	2.65979	41.1	0.
3759.8	2.65972	37.3	0.
3759.9	2.65965	45.3	0.
3768.5	2.65358	91.6	0.
3768.6	2.65351	90.5	0.
3768.7	2.65343	88.4	0.
3768.8	2.65336	87.6	0.
3768.9	2.65329	87.5	0.
3769.0	2.65322	87.6	0.
3769.1	2.65315	87.3	0.
3769.2	2.65308	85.8	0.
3769.3	2.65301	79.7	0.
3769.4	2.65294	70.9	0.
3769.5	2.65287	59.1	0.
3769.6	2.65280	46.1	0.
3769.7	2.65273	36.3	0.
3769.8	2.65266	30.0	0.
3769.9	2.65259	34.0	0.
3770.0	2.65252	46.7	0.
3770.1	2.65245	50.4	0.
3770.2	2.65238	59.0	0.
3770.3	2.65231	67.0	0.
3770.4	2.65224	73.2	0.
3770.5	2.65217	79.2	0.
3770.6	2.65210	86.8	0.
3770.7	2.65203	88.1	0.
3770.8	2.65196	90.7	0.
3770.9	2.65189	93.4	0.
3771.0	2.65182	94.6	0.
3771.1	2.65175	93.9	0.
3771.2	2.65168	91.5	0.
3771.3	2.65161	86.0	0.
3771.4	2.65154	90.2	0.
3771.5	2.65146	85.0	0.
3771.6	2.65139	86.9	0.
3771.7	2.65132	87.5	0.
3771.8	2.65125	90.1	0.
3771.9	2.65118	92.2	0.
3772.0	2.65111	96.2	0.
3772.1	2.65104	97.2	0.
3772.2	2.65097	97.9	0.
3772.3	2.65090	98.5	0.
3772.4	2.65083	98.5	0.
3772.5	2.65076	98.7	0.
3772.6	2.65069	99.3	0.2
3772.7	2.65062	99.6	0.5
3772.8	2.65055	99.0	1.3
3772.9	2.65048	99.0	2.2
3773.0	2.65041	99.5	5.2
3773.1	2.65034	99.0	4.8
3773.2	2.65027	99.1	5.3
3773.3	2.65020	99.4	6.2
3773.4	2.65013	99.0	7.2
3773.5	2.65006	98.6	8.1
3773.6	2.64999	99.1	9.0
3773.7	2.64992	97.6	9.5
3773.8	2.64985	98.4	9.9
3773.9	2.64978	98.5	10.3
3774.0	2.64971	98.8	10.6
3774.1	2.64964	97.6	10.8
3774.2	2.64957	99.1	10.5
3774.3	2.64950	98.3	10.4
3774.4	2.64943	98.6	9.8
3774.5	2.64936	99.2	8.4
3774.6	2.64929	99.6	7.7
3774.7	2.64922	99.6	7.4
3774.8	2.64915	99.5	8.1
3774.9	2.64908	99.4	9.3
3775.0	2.64901	99.6	11.0
3775.1	2.64894	99.4	12.7
3775.2	2.64887	99.5	14.2
3775.3	2.64880	99.5	15.4
3775.4	2.64873	99.5	16.2
3775.5	2.64866	99.5	16.7
3775.6	2.64859	99.6	16.9
3775.7	2.64852	99.5	17.4
3775.8	2.64845	99.1	17.8
3775.9	2.64838	99.3	17.6
3776.0	2.64831	99.2	17.4
3776.1	2.64824	99.0	17.3
3776.2	2.64817	99.0	17.1
3776.3	2.64810	99.0	16.7
3776.4	2.64802	99.0	16.3
3776.5	2.64795	99.0	16.0
3776.6	2.64788	98.9	15.3
3776.7	2.64781	99.4	14.5
3776.8	2.64774	98.4	14.1
3776.9	2.64767	98.4	13.4
3777.0	2.64760	98.3	12.7
3777.1	2.64753	98.2	11.9
3777.2	2.64746	98.2	11.0
3777.3	2.64739	97.7	10.2
3777.4	2.64732	97.2	9.3
3777.5	2.64725	93.7	8.7
3777.6	2.64718	91.0	7.8
3777.7	2.64711	88.4	6.6
3777.8	2.64704	85.2	5.4
3777.9	2.64697	83.2	4.3
3778.0	2.64690	86.6	3.4
3778.1	2.64683	87.8	2.8
3778.2	2.64676	91.6	2.6
3778.3	2.64669	93.4	2.8
3778.4	2.64662	95.1	3.0
3787.0	2.64061	93.2	1.4
3787.1	2.64054	96.2	1.6
3787.2	2.64047	95.4	2.1
3787.3	2.64040	96.4	3.0
3787.4	2.64033	96.7	4.1
3787.5	2.64026	97.2	5.6
3787.6	2.64019	97.8	7.0
3787.7	2.64012	99.5	8.6
3787.8	2.64005	99.4	11.0
3787.9	2.63999	99.9	13.1
3788.0	2.63992	99.1	14.9
3788.1	2.63985	99.5	15.6
3788.2	2.63978	99.3	16.0
3788.3	2.63971	99.2	16.5
3788.4	2.63964	99.7	16.4
3788.5	2.63957	99.1	17.9
3788.6	2.63950	99.0	16.6
3788.7	2.63943	99.4	15.0
3788.8	2.63936	99.7	13.1
3788.9	2.63929	96.8	10.7
3789.0	2.63922	96.0	8.5
3789.1	2.63915	99.4	6.5
3789.2	2.63908	99.5	5.4
3789.3	2.63901	93.6	4.2
3789.4	2.63894	98.4	3.5
3789.5	2.63887	96.0	4.3
3789.6	2.63880	96.2	5.2
3789.7	2.63873	96.4	7.0
3789.8	2.63866	97.3	9.1
3789.9	2.63859	98.4	11.7
3790.0	2.63852	99.2	14.1
3790.1	2.63845	99.5	16.1
3790.2	2.63838	99.3	16.0
3790.3	2.63831	99.5	19.3
3790.4	2.63824	99.7	20.0
3790.5	2.63817	99.5	20.5
3790.6	2.63810	99.6	20.6
3790.7	2.63804	99.4	21.0
3790.8	2.63797	99.4	21.1
3790.9	2.63790	99.4	21.1
3791.0	2.63783	99.5	20.9
3791.1	2.63776	99.4	22.1
3791.2	2.63769	99.5	20.4
3791.3	2.63762	99.5	20.1
3791.4	2.63755	99.5	19.0
3791.5	2.63748	99.5	19.5
3791.6	2.63741	99.5	19.2
3791.7	2.63734	99.3	18.6
3791.8	2.63727	99.3	18.3
3791.9	2.63720	99.5	17.5
3792.0	2.63713	99.3	16.5
3792.1	2.63706	99.2	15.4
3792.2	2.63699	99.0	13.7
3792.3	2.63692	97.8	11.8
3792.4	2.63685	97.0	9.8
3792.5	2.63678	99.8	8.5
3792.6	2.63671	98.6	7.7
3792.7	2.63664	97.1	7.1
3792.8	2.63657	97.4	7.0
3792.9	2.63651	96.2	6.7
3793.0	2.63644	99.8	9.3
3793.1	2.63637	99.2	9.7
3793.2	2.63630	99.1	9.7
3793.3	2.63623	98.8	9.1
3793.4	2.63616	98.3	8.5
3793.5	2.63609	97.9	6.8
3793.6	2.63602	97.4	5.5
3793.7	2.63595	97.4	4.5
3793.8	2.63588	97.6	3.6
3793.9	2.63581	97.8	4.1
3794.0	2.63574	98.3	4.6
3794.1	2.63567	98.7	4.2
3794.2	2.63560	98.4	4.2
3794.3	2.63553	98.4	4.3
3794.4	2.63546	98.4	4.1
3794.5	2.63539	98.7	3.8
3794.6	2.63532	98.4	3.4
3794.7	2.63525	98.6	3.0
3794.8	2.63518	98.8	2.4
3794.9	2.63512	98.8	1.7
3795.0	2.63505	97.7	1.2
3795.1	2.63498	96.2	1.1
3795.2	2.63491	94.3	1.0
3795.3	2.63484	93.9	0.6
3795.4	2.63477	93.0	0.4
3795.5	2.63470	92.1	0.2
3795.6	2.63463	91.1	0.1
3795.7	2.63456	89.0	0.1
3795.8	2.63449	85.7	0.1
3795.9	2.63442	80.2	0.1
3796.0	2.63435	73.8	0.1
3796.1	2.63428	67.0	0.1
3796.2	2.63421	57.3	0.1
3796.3	2.63414	43.1	0.1
3796.4	2.63407	39.6	0.1
3796.5	2.63401	42.7	0.1
3796.6	2.63394	49.1	0.1
3796.7	2.63387	59.0	0.1
3796.8	2.63380	70.1	0.0
3796.9	2.63373	78.0	0.
3805.5	2.62778	95.3	0.
3805.6	2.62771	94.8	0.
3805.7	2.62764	93.4	0.
3805.8	2.62757	92.6	0.
3805.9	2.62750	91.0	0.
3806.0	2.62743	89.6	0.
3806.1	2.62736	87.6	0.
3806.2	2.62729	85.2	0.
3806.3	2.62722	82.7	0.
3806.4	2.62715	79.7	0.
3806.5	2.62709	76.0	0.
3806.6	2.62702	68.6	0.
3806.7	2.62695	53.6	0.
3806.8	2.62688	42.2	0.
3806.9	2.62681	32.0	0.
3807.0	2.62674	[illegible]	0.
3807.1	2.62667	22.9	0.
3807.2	2.62660	25.7	0.
3807.3	2.62653	33.5	0.
3807.4	2.62646	44.3	0.
3807.5	2.62640	55.7	0.
3807.6	2.62633	68.3	0.
3807.7	2.62626	77.0	0.
3807.8	2.62619	83.2	0.
3807.9	2.62612	88.1	0.
3808.0	2.62605	89.4	0.
3808.1	2.62598	91.3	0.
3808.2	2.62591	92.6	0.
3808.3	2.62584	93.2	0.
3808.4	2.62577	94.2	0.
3808.5	2.62571	96.0	0.
3808.6	2.62564	95.0	0.
3808.7	2.62557	96.0	0.
3808.8	2.62550	96.3	0.
3808.9	2.62543	96.3	0.
3809.0	2.62536	97.5	0.
3809.1	2.62529	97.7	0.
3809.2	2.62522	97.8	0.
3809.3	2.62515	97.8	0.
3809.4	2.62509	97.5	0.
3809.5	2.62502	98.2	0.
3809.6	2.62495	98.1	0.0
3809.7	2.62488	98.1	0.1
3809.8	2.62481	98.0	3.0
3809.9	2.62474	98.2	3.0
3810.0	2.62467	97.4	6.2

Table 6-4 (Cont'd)

Sam. No.		38	39
p(atm)		5.46 x 10[illegible]	9.67 x 10[illegible]
P_e(atm)		1.99 x 10[illegible]	9.00 x 10[illegible]
u(gm/cm²)		1.60 x 10[illegible]	8.67 x 10[illegible]

ν (cm⁻¹)	λ (micron)	T x 100	T x 100
3686.0	2.71297	96.5	2.7
3686.1	2.71289	96.3	2.7
3686.2	2.7128[illegible]	96.1	2.7
3686.3	2.71275	95.6	2.6
3686.4	2.71267	[illegible]	[illegible]
3686.5	2.7126[illegible]	93.7	2.0
3686.6	2.71253	92.6	1.7
3686.7	2.71245	91.7	1.4
3686.8	2.71238	91.5	1.1
3686.9	2.7123[illegible]	91.6	0.8
3687.0	2.71223	91.3	0.7
3687.1	2.71216	91.6	0.5
3687.2	2.7120[illegible]	91.1	0.3
3687.3	2.7120[illegible]	89.8	0.2
3687.4	2.71194	87.9	0.1
3687.5	2.71186	85.6	0.1
3687.6	2.71179	82.0	0.1
3687.7	2.7117[illegible]	78.5	0.1
[illegible]	[illegible]	[illegible]	[illegible]

Table 6-5 $\int_{\nu_i}^{\nu} A(\nu)\, d\nu$

Sam. No.	38	39
p(atm)	3.46 × $10^{[illegible]}$	9.67 × $10^{[illegible]}$
P_e(atm)	1.99 × 10^{-1}	9.89 × 10^{-1}
u(gm/cm²)	1.69 × 10^{-3}	8.67 × 10^{-2}
ν (cm⁻¹)	ν'=3464 cm⁻¹	ν'=3464 cm⁻¹
3464.0	0.	0.
3464.5	0.005	0.183
3465.0	0.012	0.384
3465.5	0.016	0.483
3466.0	0.020	0.672
3466.5	0.032	0.978
3467.0	0.078	1.373
3467.5	0.103	1.761
3468.0	0.106	1.950
3468.5	0.112	2.128
3469.0	0.116	2.292
3469.5	0.121	2.365
3470.0	0.125	2.509
3470.5	0.143	2.797
3471.0	0.153	3.081
3471.5	0.156	3.209
3472.0	0.163	3.399
3472.5	0.166	3.521
3473.0	0.169	3.637
3473.5	0.182	3.869
3474.0	0.188	4.163
3474.5	0.193	4.357
3475.0	0.243	4.745
3475.5	0.282	5.185
3476.0	0.285	5.431
3476.5	0.286	5.556
3477.0	0.287	5.655
3477.5	0.288	5.740
3478.0	0.289	5.837
3478.5	0.290	5.928
3479.0	0.291	6.038
3479.5	0.298	6.270
3480.0	0.305	6.558
3480.5	0.362	6.958
3481.0	0.422	7.431
3481.5	0.435	7.843
3482.0	0.467	8.288
3482.5	0.588	8.775
3483.0	0.608	9.213
3483.5	0.611	9.508
3484.0	0.619	9.766
3484.5	0.635	10.104
3485.0	0.641	10.366
3485.5	0.652	10.671
3486.0	0.677	11.038
3486.5	0.694	11.349
3487.0	0.706	11.740
3487.5	0.710	11.982
3488.0	0.734	12.363
3488.5	0.843	12.816
3489.0	0.860	13.192
3489.5	0.863	13.363
3490.0	0.868	13.537
3490.5	0.873	13.651
3491.0	0.883	13.813
3491.5	0.903	14.216
3492.0	0.911	14.422
3492.5	0.916	14.550
3493.0	0.923	14.664
3493.5	0.931	14.857
3494.0	0.939	15.053
3494.5	0.946	15.244
3495.0	0.964	15.563
3495.5	1.115	16.001
3496.0	1.127	16.369
3496.5	1.130	16.776
3497.0	1.143	17.247
3497.5	1.15	17.619
3498.0	1.16	17.867
3498.5	1.177	18.060
3499.0	1.187	18.268
3499.5	1.208	18.507
3500.0	1.239	18.891
3500.5	1.252	19.217
3501.0	1.268	19.517
3501.5	1.313	19.692
3502.0	1.401	20.404
3502.5	1.440	20.975
3503.0	1.541	21.470
3503.5	1.609	21.960
3504.0	1.765	22.467
3504.5	1.852	22.951
3505.0	1.882	23.443
3505.5	1.903	23.890
3506.0	1.937	24.326
3506.5	1.958	24.722
3507.0	1.976	25.050
3507.5	1.988	[illegible]
3508.0	1.997	25.528
3508.5	2.009	25.796
3509.0	2.050	26.147
3509.5	2.150	26.601
3510.0	2.261	27.176
3510.5	2.306	27.640
3511.0	2.361	28.000
3511.5	2.372	28.517
3512.0	2.421	28.967
3512.5	2.430	29.330
3513.0	2.460	29.691
3513.5	2.492	30.075
3514.0	2.506	30.610
3514.5	2.523	30.713
3515.0	2.531	30.862
3515.5	2.539	30.979
3516.0	2.546	31.105
3516.5	2.554	31.235
3517.0	2.561	31.424
3517.5	2.590	31.764
3518.0	2.610	32.064
3518.5	2.620	32.357
3519.0	2.661	32.778
3519.5	2.715	33.226
3520.0	2.735	33.615
3520.5	2.744	33.911
3521.0	2.757	34.209
3521.5	2.777	34.605
3522.0	2.799	35.000
3522.5	2.877	35.475
3523.0	3.026	35.972
3523.5	3.098	36.470
3524.0	3.182	36.966
3524.5	3.241	37.455
3525.0	3.291	37.937
3525.5	3.333	38.409
3526.0	3.389	38.882
3526.5	3.408	39.365
3527.0	3.494	39.838
3527.5	3.613	40.337
3528.0	3.690	40.836
3528.5	3.760	41.334
3529.0	3.832	41.832
3529.5	3.935	42.324
3530.0	3.951	42.775
3530.5	3.975	43.227
3531.0	4.046	43.713
3531.5	4.099	44.185
3532.0	4.116	44.524
3532.5	4.121	44.728
3533.0	4.126	44.888
3533.5	4.131	45.052
3534.0	4.135	45.229
3534.5	4.142	45.450
3535.0	4.147	45.664
3535.5	4.153	45.951
3536.0	4.190	46.372
3536.5	4.338	46.864
3537.0	4.389	47.352
3537.5	4.400	47.837
3538.0	4.407	48.306
3538.5	4.414	48.746
3539.0	4.426	49.145
3539.5	4.436	49.491
3540.0	4.448	49.790
3540.5	4.464	50.036
3541.0	4.472	50.300
3541.5	4.477	50.536
3542.0	4.482	50.786
3542.5	4.495	51.062
3543.0	4.531	51.370
3543.5	4.637	51.665
3544.0	4.740	52.025
3544.5	4.861	52.277
3545.0	4.868	52.556
3545.5	5.008	53.011
3546.0	5.151	53.508
3546.5	5.171	54.006
3547.0	5.292	54.506
3547.5	5.418	54.993
3548.0	5.442	55.491
3548.5	5.546	55.961
3549.0	5.567	56.455
3549.5	5.580	56.838
3550.0	5.595	57.180
3550.5	5.613	57.616
3551.0	5.637	58.044
3551.5	5.644	58.527
3552.0	5.768	58.996
3552.5	5.937	59.483
3553.0	6.026	59.985
3553.5	6.096	60.476
3554.0	6.135	60.959
3554.5	6.176	61.425
3555.0	6.187	61.838
3555.5	6.193	62.160
3556.0	6.196	62.626
3556.5	6.199	62.685
3557.0	6.223	63.071
3557.5	6.266	63.561
3558.0	6.296	63.996
3558.5	6.301	[illegible]
3559.0	6.306	64.623
3559.5	6.310	65.032
3560.0	6.361	65.600
3560.5	6.437	65.996
3561.0	6.503	66.485
3561.5	6.556	66.977
3562.0	6.576	67.463
3562.5	6.633	67.925
3563.0	6.665	68.418
3563.5	6.766	68.912
3564.0	6.895	69.411
3564.5	6.942	69.911
3565.0	6.996	70.411
3565.5	7.066	70.911
3566.0	7.281	71.411
3566.5	7.550	71.911
3567.0	7.807	72.411
3567.5	7.869	72.911
3568.0	8.038	73.411
3568.5	8.323	73.911
3569.0	8.459	74.411
3569.5	8.490	74.909
3570.0	8.504	75.392
3570.5	8.560	75.879
3571.0	8.633	76.367
3571.5	8.642	76.783
3572.0	8.648	77.141
3572.5	8.655	77.487
3573.0	8.674	77.915
3573.5	8.765	78.391
3574.0	8.737	78.873
3574.5	8.806	79.365
3575.0	8.886	79.860
3575.5	8.923	80.307
3576.0	8.930	80.697
3576.5	8.963	81.137
3577.0	9.028	81.628
3577.5	9.118	82.113
3578.0	9.137	82.556
3578.5	9.148	82.955
3579.0	9.159	83.377
3579.5	9.222	83.864
3580.0	9.247	84.360
3580.5	9.365	84.843
3581.0	9.380	85.291
3581.5	9.397	85.726
3582.0	9.405	86.121
3582.5	9.435	86.560
3583.0	9.463	87.059
3583.5	9.540	87.553
3584.0	9.631	88.051
3584.5	9.671	88.537
3585.0	9.686	89.015
3585.5	9.748	89.509
3586.0	9.768	90.008
3586.5	9.925	90.508
3587.0	10.231	91.008
3587.5	10.420	91.506
3588.0	10.556	92.008
3588.5	10.594	92.508
3589.0	10.991	93.008
3589.5	11.075	93.506
3590.0	11.102	94.006
3590.5	11.156	94.508
3591.0	11.176	95.007
3591.5	11.185	95.494
3592.0	11.197	95.934
3592.5	11.208	96.415
3593.0	11.248	96.832
3593.5	11.430	97.386
3594.0	11.500	97.884
3594.5	11.531	98.386
3595.0	11.567	98.886
3595.5	11.748	99.386
3596.0	11.871	99.886
3596.5	11.990	100.386
3597.0	12.025	100.886
3597.5	12.018	101.385
3598.0	12.092	101.876
3598.5	12.241	102.360
3599.0	12.321	102.863
3599.5	12.461	103.347
3600.0	12.511	103.847
3600.5	12.645	104.347
3601.0	12.749	104.847
3601.5	12.860	105.347
3602.0	12.882	105.847
3602.5	12.951	106.346
3603.0	13.011	106.863
3603.5	13.078	107.341
3604.0	13.090	107.841
3604.5	13.111	108.351
3605.0	13.112	108.816
3605.5	13.142	109.260
3606.0	13.159	109.716
3606.5	13.183	110.210
3607.0	13.366	110.709
3607.5	13.577	111.209
3608.0	13.625	111.704
3608.5	13.650	112.204
3609.0	13.700	112.704
3609.5	13.909	113.204
3610.0	14.177	113.704
3610.5	14.216	114.204
3611.0	14.236	114.704
3611.5	14.256	115.204
3612.0	14.320	115.704
3612.5	14.362	116.204
3613.0	14.615	116.704
3613.5	14.936	117.204
3614.0	14.971	117.704
3614.5	15.146	118.204
3615.0	15.368	118.704
3615.5	15.530	119.204
3616.0	15.612	119.704
3616.5	15.639	120.204
3617.0	15.662	120.704
3617.5	15.772	121.204
3618.0	16.060	121.704
3618.5	16.216	122.204
3619.0	16.271	122.704
3619.5	16.472	123.204
3620.0	16.770	123.704
3620.5	16.877	124.204
3621.0	16.957	124.704
3621.5	17.103	125.204
3622.0	17.134	125.704
3622.5	17.190	126.204
3623.0	17.181	126.704
3623.5	17.254	127.204
3624.0	17.274	127.704
3624.5	17.291	128.204
3625.0	17.368	128.702
3625.5	17.390	129.201
3626.0	17.391	129.699
3626.5	17.560	130.194
3627.0	17.588	130.687
3627.5	17.624	131.184
3628.0	17.735	131.684
3628.5	18.080	132.184
3629.0	18.331	132.684
3629.5	18.648	133.184
3630.0	18.951	133.684
3630.5	19.056	134.184
3631.0	19.197	134.684
3631.5	19.230	135.184
3632.0	19.256	135.684
3632.5	19.290	136.184
3633.0	19.313	136.684
3633.5	19.382	137.184
3634.0	19.598	137.684
3634.5	19.657	138.184
3635.0	19.683	138.684
3635.5	19.708	139.184
3636.0	19.720	139.684
3636.5	19.736	140.184
3637.0	19.763	140.684
3637.5	19.765	141.183
3638.0	19.873	141.678
3638.5	19.961	142.154
3639.0	19.974	142.617
3639.5	19.966	143.089
3640.0	20.032	143.576
3640.5	20.057	144.070
3641.0	20.065	144.569
3641.5	20.094	145.059
3642.0	20.192	145.542
3642.5	20.276	146.013
3643.0	20.367	146.498
3643.5	20.420	146.958
3644.0	20.450	147.434
3644.5	20.463	147.927
3645.0	20.486	148.427
3645.5	20.573	148.927
3646.0	20.648	149.427
3646.5	20.866	149.923
3647.0	21.026	150.411
3647.5	21.367	150.901
3648.0	21.663	151.380
3648.5	21.751	151.890
3649.0	21.918	152.390
3649.5	22.201	152.890
3650.0	22.609	153.390
3650.5	22.606	153.890
3651.0	22.961	154.390
3651.5	23.256	154.890
3652.0	23.417	155.390
3652.5	23.459	155.890
3653.0	23.516	156.390
3653.5	23.557	156.890
3654.0	23.572	157.390
3654.5	23.509	157.890
3655.0	23.617	158.390
3655.5	23.663	158.890
3656.0	23.763	159.390
3656.5	24.067	159.890
3657.0	24.245	160.390
3657.5	24.295	160.890
3658.0	24.316	161.390
3658.5	24.327	161.890
3659.0	24.334	162.390
3659.5	24.360	162.890
3660.0	24.390	163.390
3660.5	24.457	163.890
3661.0	24.477	164.389
3661.5	24.600	164.887
3662.0	24.560	165.371
3662.5	24.521	165.862
3663.0	24.530	166.350
3663.5	24.541	166.848

Table 6-5 $\int_{\nu_i}^{\nu} A(\nu')\,d\nu'$ (cont'd)

Sam. No.	18	19
p(atm)	5.46 x 10[illegible]	9.67 x 10[illegible]
P_e(atm)	1.99 x 10[illegible]	9.89 x 10[illegible]
u(gm/cm²)	1.69 x 10^{-3}	8.67 x 10[illegible]
(cm⁻¹)	$\int_{3664}$ cm⁻²	$\int_{3664}$ cm⁻²
3664.0	24.552	167.235
3664.5	24.566	167.735
3665.0	24.570	168.235
3665.5	24.583	168.702
3666.0	24.615	169.153
3666.5	24.635	169.611
3667.0	24.649	170.058
3667.5	24.667	170.511
3668.0	24.696	170.951
3668.5	24.792	171.466
3669.0	25.085	171.958
3669.5	25.132	172.455
3670.0	25.140	172.949
3670.5	25.544	173.447
3671.0	[illegible]	173.946
3671.5	26.161	174.446
3672.0	26.207	174.946
3672.5	26.243	175.446
3673.0	26.271	175.946
3673.5	26.300	176.446
3674.0	26.356	176.946
3674.5	26.559	177.446
3675.0	26.917	177.945
3675.5	27.244	178.446
3676.0	27.566	178.946
3676.5	27.918	179.446
3677.0	28.042	179.946
3677.5	28.185	180.446
3678.0	28.284	180.946
3678.5	28.326	181.446
3679.0	28.356	181.946
3679.5	28.550	182.446
3680.0	28.700	182.946
3680.5	28.767	183.446
3681.0	28.833	183.946
3681.5	28.853	184.446
3682.0	28.870	184.946
3682.5	28.883	185.446
3683.0	28.894	185.946
3683.5	[illegible]	186.446
3684.0	28.923	186.946
3684.5	28.965	187.446
3685.0	29.066	187.937
3685.5	29.088	188.424
3686.0	29.104	188.910
3686.5	29.146	189.397
3687.0	29.165	189.891
3687.5	29.216	190.369
3688.0	29.367	190.844
3688.5	29.646	191.366
3689.0	30.013	191.867
3689.5	30.123	192.347
3690.0	30.192	192.867
3690.5	30.376	193.367
3691.0	[illegible]	193.867
3691.5	30.960	194.367
3692.0	31.069	194.867
3692.5	31.097	195.367
3693.0	31.136	195.867
3693.5	31.211	196.367
3694.0	31.272	196.867
3694.5	31.345	197.367
3695.0	31.350	197.867
3695.5	31.368	198.367
3696.0	[illegible]	[illegible]
3696.5	[illegible]	199.367
3697.0	[illegible]	[illegible]
3697.5	[illegible]	200.367
3698.0	[illegible]	[illegible]
3698.5	[illegible]	[illegible]
3699.0	[illegible]	[illegible]
3699.5	[illegible]	[illegible]
3700.0	[illegible]	[illegible]
3700.5	[illegible]	[illegible]
3701.0	[illegible]	[illegible]
3701.5	[illegible]	[illegible]
3702.0	[illegible]	[illegible]
3702.5	[illegible]	[illegible]
3703.0	[illegible]	[illegible]
3703.5	[illegible]	[illegible]
3704.0	[illegible]	[illegible]
3704.5	[illegible]	[illegible]
3705.0	[illegible]	[illegible]
3705.5	[illegible]	[illegible]
3706.0	[illegible]	[illegible]
3706.5	[illegible]	[illegible]
3707.0	[illegible]	[illegible]
3707.5	[illegible]	[illegible]
3708.0	[illegible]	[illegible]
3708.5	[illegible]	[illegible]
3709.0	[illegible]	[illegible]
3709.5	[illegible]	[illegible]
3710.0	[illegible]	[illegible]
3710.5	[illegible]	[illegible]
3711.0	[illegible]	[illegible]
3711.5	[illegible]	[illegible]
3712.0	[illegible]	[illegible]
3712.5	[illegible]	[illegible]
3713.0	[illegible]	[illegible]
3713.5	[illegible]	[illegible]

Sam. No.	18	19
p(atm)	5.46 x 10[illegible]	9.67 x 10[illegible]
P_e(atm)	1.99 x 10[illegible]	9.89 x 10[illegible]
u(gm/cm²)	1.69 x 10^{-3}	8.67 x 10[illegible]
(cm⁻¹)	$\int_{3664}$ cm⁻²	$\int_{3664}$ cm⁻²
3714.0	34.565	216.711
3714.5	34.591	217.211
3715.0	34.692	217.711
3715.5	34.755	218.211
3716.0	[illegible]	218.711
3716.5	34.809	219.211
3717.0	34.848	219.711
3717.5	[illegible]	220.211
3718.0	34.893	220.711
3718.5	34.910	221.209
3719.0	[illegible]	221.708
3719.5	35.182	222.207
3720.0	35.231	222.701
3720.5	35.265	223.196
3721.0	[illegible]	223.696
3721.5	35.365	224.196
3722.0	35.480	224.696
3722.5	35.745	225.196
3723.0	35.907	225.696
3723.5	35.999	226.193
3724.0	36.042	226.693
3724.5	36.111	227.193
3725.0	36.255	227.693
3725.5	36.358	228.193
3726.0	36.496	228.693
3726.5	36.617	229.193
3727.0	36.655	229.693
3727.5	36.925	230.193
3728.0	37.027	230.693
3728.5	37.066	231.193
3729.0	37.085	231.693
3729.5	37.107	232.193
3730.0	37.147	232.693
3730.5	37.235	233.193
3731.0	37.361	233.693
3731.5	37.371	234.193
3732.0	37.542	234.693
3732.5	37.936	235.193
3733.0	38.091	235.693
3733.5	38.147	236.193
3734.0	38.230	236.693
3734.5	38.491	237.193
3735.0	[illegible]	237.693
3735.5	[illegible]	238.193
3736.0	[illegible]	238.693
3736.5	[illegible]	239.193
3737.0	[illegible]	239.693
3737.5	[illegible]	240.193
3738.0	40.067	240.693
3738.5	40.231	241.193
3739.0	40.371	241.693
3739.5	[illegible]	242.193
3740.0	[illegible]	242.693
3740.5	40.595	243.193
3741.0	40.785	243.693
3741.5	40.878	244.193
3742.0	41.065	244.693
3742.5	41.096	245.193
3743.0	41.166	245.693
3743.5	41.258	246.193
3744.0	41.507	246.693
3744.5	[illegible]	247.193
3745.0	42.466	247.693
3745.5	42.749	248.193
3746.0	[illegible]	248.693
3746.5	[illegible]	[illegible]
3747.0	[illegible]	[illegible]
3747.5	[illegible]	[illegible]
3748.0	[illegible]	[illegible]
3748.5	[illegible]	[illegible]
3749.0	[illegible]	[illegible]
3749.5	[illegible]	[illegible]
3750.0	[illegible]	[illegible]
3750.5	[illegible]	[illegible]
3751.0	[illegible]	[illegible]
3751.5	[illegible]	[illegible]
3752.0	[illegible]	[illegible]
3752.5	[illegible]	[illegible]
3753.0	[illegible]	[illegible]
3753.5	[illegible]	[illegible]
3754.0	[illegible]	[illegible]
3754.5	[illegible]	[illegible]
3755.0	[illegible]	[illegible]
3755.5	[illegible]	[illegible]
3756.0	[illegible]	[illegible]
3756.5	[illegible]	[illegible]
3757.0	[illegible]	[illegible]
3757.5	[illegible]	[illegible]
3758.0	[illegible]	[illegible]
3758.5	[illegible]	[illegible]
3759.0	[illegible]	[illegible]
3759.5	[illegible]	[illegible]
3760.0	[illegible]	[illegible]
3760.5	[illegible]	[illegible]
3761.0	[illegible]	[illegible]
3761.5	[illegible]	[illegible]
3762.0	[illegible]	[illegible]
3762.5	[illegible]	[illegible]
3763.0	[illegible]	[illegible]
3763.5	[illegible]	[illegible]

Sam. No.	18	19
p(atm)	5.46 x 10[illegible]	9.67 x 10[illegible]
P_e(atm)	1.99 x 10[illegible]	9.89 x 10[illegible]
u(gm/cm²)	1.69 x 10^{-3}	8.67 x 10[illegible]
(cm⁻¹)	$\int_{3664}$ cm⁻²	$\int_{3664}$ cm⁻²
3764.0	47.659	266.692
3764.5	47.727	267.189
3765.0	47.770	267.686
3765.5	47.859	268.185
3766.0	[illegible]	268.684
3766.5	48.226	269.184
3767.0	48.266	269.684
3767.5	48.285	270.184
3768.0	48.304	270.684
3768.5	48.334	271.184
3769.0	48.390	271.684
3769.5	48.493	272.184
3770.0	48.797	272.684
3770.5	48.987	273.184
3771.0	49.043	273.684
3771.5	[illegible]	274.184
3772.0	49.149	274.684
3772.5	49.160	275.184
3773.0	49.165	275.679
3773.5	49.170	276.150
3774.0	49.184	276.602
3774.5	49.193	277.051
3775.0	[illegible]	277.509
3775.5	49.199	277.936
3776.0	49.252	278.350
3776.5	49.267	278.766
3777.0	49.214	279.193
3777.5	49.247	279.640
3778.0	49.290	280.110
3778.5	49.332	280.601
3779.0	49.372	281.100
3779.5	49.465	281.600
3780.0	49.880	282.100
3780.5	49.915	282.600
3781.0	[illegible]	283.100
3781.5	49.936	283.598
3782.0	49.977	284.087
3782.5	50.006	284.560
3783.0	50.011	285.059
3783.5	50.016	285.519
3784.0	50.331	285.968
3784.5	50.365	286.401
3785.0	50.311	286.980
3785.5	[illegible]	287.480
3786.0	50.468	287.960
3786.5	50.516	288.479
3787.0	50.548	288.976
3787.5	50.570	289.460
3788.0	50.578	289.909
3788.5	50.582	290.321
3789.0	50.589	290.753
3789.5	50.621	291.227
3790.0	50.638	291.685
3790.5	50.660	292.094
3791.0	50.663	292.489
3791.5	50.665	292.880
3792.0	50.668	293.296
3792.5	50.696	293.733
3793.0	50.670	294.192
3793.5	50.676	294.644
3794.0	50.689	295.110
3794.5	50.694	295.504
3795.0	50.763	296.081
3795.5	[illegible]	[illegible]
3796.0	[illegible]	[illegible]
3796.5	[illegible]	[illegible]
3797.0	[illegible]	[illegible]
3797.5	[illegible]	[illegible]
3798.0	[illegible]	[illegible]
3798.5	[illegible]	[illegible]
3799.0	[illegible]	[illegible]
3799.5	[illegible]	[illegible]
3800.0	[illegible]	[illegible]
3800.5	[illegible]	[illegible]
3801.0	[illegible]	[illegible]
3801.5	[illegible]	[illegible]
3802.0	[illegible]	[illegible]
3802.5	[illegible]	[illegible]
3803.0	[illegible]	[illegible]
3803.5	[illegible]	[illegible]
3804.0	[illegible]	[illegible]
3804.5	[illegible]	[illegible]
3805.0	[illegible]	[illegible]
3805.5	[illegible]	[illegible]
3806.0	[illegible]	[illegible]
3806.5	[illegible]	[illegible]
3807.0	[illegible]	[illegible]
3807.5	[illegible]	[illegible]
3808.0	[illegible]	[illegible]
3808.5	[illegible]	[illegible]
3809.0	[illegible]	[illegible]
3809.5	[illegible]	[illegible]
3810.0	[illegible]	[illegible]

Table 6-6

Table 6-6 (Cont'd)

[illegible]

4197.0	2.38265	97.8	80.3	69.5
4197.2	2.38254	97.9	78.2	68.2
4197.4	2.38243	98.1	79.6	71.3
4197.6	2.38231	98.4	82.6	75.9
4197.8	2.38220	98.7	87.3	79.1
4198.0	2.38209	99.2	90.6	82.0
4198.2	2.38197	99.5	93.6	86.1
4198.4	2.38186	99.5	94.8	89.1
4198.6	2.38175	99.5	95.4	90.2
4198.8	2.38163	99.7	95.8	90.4
4199.0	2.38152	99.6	95.9	89.3
4199.2	2.38141	99.5	95.9	88.1
4199.4	2.38129	99.4	95.2	86.4
4199.6	2.38118	99.1	91.4	80.6
4199.8	2.38107	97.9	85.3	71.0
4200.0	2.38095	97.3	79.5	64.9
4200.2	2.38084	96.8	75.0	61.0
4200.4	2.38073	97.0	75.4	61.3
4200.6	2.38061	98.0	79.3	66.5
4200.8	2.38050	98.6	83.4	74.5
4201.0	2.38039	99.0	87.1	77.7
4201.2	2.38027	99.2	89.0	81.7
4201.4	2.38016	99.1	89.8	81.8
4201.6	2.38005	99.1	89.4	80.1
4201.8	2.37993	98.6	86.0	77.6
4202.0	2.37982	97.7	80.2	73.6
4202.2	2.37971	97.4	75.5	65.3
4202.4	2.37959	97.5	75.5	65.2
4202.6	2.37948	97.9	79.3	70.7
4202.8	2.37937	98.5	86.0	78.0
4203.0	2.37925	98.9	89.6	81.6
4203.2	2.37914	99.2	90.3	81.7
4203.4	2.37903	99.2	90.1	81.1
4203.6	2.37891	98.7	88.3	77.1
4203.8	2.37880	97.5	85.7	72.8
4204.0	2.37869	95.0	78.8	66.5
4204.2	2.37857	90.4	70.0	56.4
4204.4	2.37846	84.2	56.3	40.7
4204.6	2.37835	78.6	45.6	29.1
4204.8	2.37823	77.0	41.4	23.3
4205.0	2.37812	82.2	45.3	29.2
4205.2	2.37801	90.0	56.5	40.4
4205.4	2.37790	95.5	72.1	56.4
4205.6	2.37778	97.6	84.1	69.6
4205.8	2.37767	97.9	85.9	72.5
4206.0	2.37756	98.1	85.3	73.7
4206.2	2.37744	98.4	84.2	74.0
4206.4	2.37733	98.7	85.1	75.7
4206.6	2.37722	98.5	87.8	77.9
4206.8	2.37710	98.4	88.0	78.6
4207.0	2.37699	97.9	85.7	74.8
4207.2	2.37688	97.0	79.2	68.6
4207.4	2.37676	95.1	72.0	61.8
4207.6	2.37665	94.0	64.5	54.9
4207.8	2.37654	93.8	60.8	42.8
4208.0	2.37643	94.9	63.2	43.2
4208.2	2.37631	95.8	70.1	50.9
4208.4	2.37620	97.0	80.1	63.7
4208.6	2.37609	98.2	88.7	74.7
4208.8	2.37597	98.8	92.6	82.9
4209.0	2.37586	99.1	94.2	85.5
4209.2	2.37575	99.1	94.7	87.6
4209.4	2.37564	99.2	95.2	89.0
4209.6	2.37552	99.4	95.6	90.3
4209.8	2.37541	99.7	95.8	91.3
4210.0	2.37530	99.9	96.0	92.0
4210.2	2.37518	99.9	96.1	92.3
4210.4	2.37507	99.9	96.3	92.3
4210.6	2.37496	99.9	96.5	92.3
4210.8	2.37485	99.9	96.5	92.5
4211.0	2.37473	99.9	96.6	92.9
4211.2	2.37462	99.9	96.0	[illegible]
4211.4	2.37451	99.9	95.6	92.9
4211.6	2.37439	99.9	95.4	92.7
4211.8	2.37428	99.8	95.0	91.4
4212.0	2.37417	99.8	93.2	90.6
4212.2	2.37406	99.8	92.7	89.2
4212.4	2.37394	99.8	92.8	89.0
4212.6	2.37383	99.8	93.2	90.0
4212.8	2.37372	99.8	94.4	91.0
4213.0	2.37361	99.8	95.3	91.2
4213.2	2.37349	99.5	95.0	90.2
4213.4	2.37338	99.1	93.3	89.5
4213.6	2.37327	98.6	90.3	84.7
4213.8	2.37315	98.6	86.6	80.1
4214.0	2.37304	98.5	84.6	79.4
4214.2	2.37293	98.6	85.8	81.0
4214.4	2.37282	98.9	88.9	83.7
4214.6	2.37270	99.1	93.2	87.6
4214.8	2.37259	99.5	95.4	89.0
4215.0	2.37248	99.4	95.4	89.2
4215.2	2.37237	99.5	95.0	88.6
4215.4	2.37225	99.4	94.2	87.7
4215.6	2.37214	99.3	92.6	85.5
4215.8	2.37203	98.9	91.1	79.7
4216.0	2.37192	98.1	84.4	72.1
4216.2	2.37180	96.3	75.9	65.0
4216.4	2.37169	93.8	67.1	57.4
4216.6	2.37158	91.1	57.6	43.4
4216.8	2.37147	89.0	51.2	33.9

4234.0	2.36183	100.0	95.1	92.9
4234.2	2.36172	100.0	94.8	93.3
4234.4	2.36161	100.0	95.0	93.5
4234.6	2.36150	100.0	95.6	93.6
4234.8	2.36139	100.0	96.2	93.7
4235.0	2.36128	100.0	96.5	93.7
4235.2	2.36116	100.0	96.4	93.2
4235.4	2.36105	99.7	95.8	91.9
4235.6	2.36094	99.4	95.0	90.4
4235.8	2.36083	99.1	94.7	89.7
4236.0	2.36072	99.0	95.0	89.8
4236.2	2.36061	99.1	95.1	90.1
4236.4	2.36049	99.2	94.9	90.3
4236.6	2.36038	99.4	94.4	90.7
4236.8	2.36027	99.7	96.0	91.1
4237.0	2.36016	99.8	96.3	91.6
4237.2	2.36005	100.0	96.9	92.3
4237.4	2.35994	100.0	95.0	93.1
4237.6	2.35983	100.0	96.4	93.7
4237.8	2.35971	100.0	97.1	94.3
4238.0	2.35960	100.0	97.5	94.7
4238.2	2.35949	100.0	97.6	94.4
4238.4	2.35938	100.0	97.2	93.5
4238.6	2.35927	100.0	96.5	93.1
4238.8	2.35916	100.0	96.4	93.1
4239.0	2.35905	100.0	96.0	92.4
4239.2	2.35894	99.7	94.1	89.1
4239.4	2.35882	98.8	91.2	81.0
4239.6	2.35871	97.9	84.1	72.8
4239.8	2.35860	96.6	75.2	64.9
4240.0	2.35849	95.9	71.5	61.9
4240.2	2.35838	95.8	73.6	63.5
4240.4	2.35827	96.5	79.9	70.5
4240.6	2.35816	97.6	90.3	80.7
4240.8	2.35805	98.7	94.3	87.1
4241.0	2.35793	99.3	94.9	90.6
4241.2	2.35782	99.6	94.8	91.5
4241.4	2.35771	99.8	94.1	91.1
4241.6	2.35760	99.9	93.4	90.7
4241.8	2.35749	99.8	92.8	90.2
4242.0	2.35738	99.7	92.3	89.5
4242.2	2.35727	99.7	91.2	87.5
4242.4	2.35716	99.3	89.2	83.0
4242.6	2.35705	98.9	86.3	77.3
4242.8	2.35693	98.4	81.6	73.6
4243.0	2.35682	98.3	81.6	73.5
4243.2	2.35671	98.4	84.4	75.6
4243.4	2.35660	99.0	90.4	81.0
4243.6	2.35649	99.4	94.0	87.0
4243.8	2.35638	99.5	95.3	90.9
4244.0	2.35627	99.5	95.4	91.5
4244.2	2.35616	99.5	95.5	90.8
4244.4	2.35605	99.6	96.0	90.8
4244.6	2.35593	99.7	97.1	92.0
4244.8	2.35582	99.8	97.7	93.7
4245.0	2.35571	99.8	97.7	94.2
4245.2	2.35560	99.8	97.7	95.1
4245.4	2.35549	99.8	97.6	95.4
4245.6	2.35538	99.8	97.4	95.1
4245.8	2.35527	99.9	97.1	95.0
4246.0	2.35516	99.9	96.5	94.6
4246.2	2.35505	99.9	95.7	93.8
4246.4	2.35494	100.0	94.8	92.8
4246.6	2.35483	100.0	94.5	92.2
4246.8	2.35471	100.0	94.9	92.0
4247.0	2.35460	100.0	95.4	92.0
4247.2	2.35449	100.0	95.8	92.4
4247.4	2.35438	99.9	96.1	92.9
4247.6	2.35427	99.8	96.0	92.6
4247.8	2.35416	99.7	95.4	91.7
4248.0	2.35405	99.6	95.0	90.6
4248.2	2.35394	99.5	95.3	90.2
4248.4	2.35383	99.5	96.1	90.5
4248.6	2.35372	99.4	96.5	91.1
4248.8	2.35361	99.6	96.0	91.6
4249.0	2.35349	99.7	95.2	91.2
4249.2	2.35338	99.8	94.3	90.1
4249.4	2.35327	99.8	93.2	88.4
4249.6	2.35316	99.9	89.9	85.7
4249.8	2.35305	99.7	83.7	80.7
4250.0	2.35294	98.4	76.9	70.9
4250.2	2.35283	96.2	66.8	59.9
4250.4	2.35272	93.3	57.3	46.0
4250.6	2.35261	89.3	49.1	35.2
4250.8	2.35250	88.1	50.0	31.7
4251.0	2.35239	87.0	60.0	31.9
4251.2	2.35228	88.7	68.4	38.3
4251.4	2.35217	91.8	73.0	48.4
4251.6	2.35206	94.8	73.0	55.6
4251.8	2.35195	95.2	70.0	55.3
4252.0	2.35183	93.5	65.8	51.1
4252.2	2.35172	91.8	64.5	47.1
4252.4	2.35161	91.4	68.2	46.7
4252.6	2.35150	92.6	76.7	54.4
4252.8	2.35139	95.3	85.2	67.0
4253.0	2.35128	97.9	89.6	77.3
4253.2	2.35117	99.0	90.4	83.1
4253.4	2.35106	99.4	88.6	83.9
4253.6	2.35095	99.4	86.6	83.1
4253.8	2.35084	99.3	86.3	82.0

4271.0	2.34137	86.7	76.6
4271.2	2.34126	83.6	75.0
4271.4	2.34115	82.3	73.6
4271.6	2.34104	84.4	75.9
4271.8	2.34093	89.5	81.3
4272.0	2.34082	91.8	85.6
4272.2	2.34071	91.7	86.4
4272.4	2.34060	88.5	83.5
4272.6	2.34050	84.6	74.7
4272.8	2.34039	82.0	75.1
4273.0	2.34028	82.1	74.6
4273.2	2.34017	83.6	77.2
4273.4	2.34006	86.5	79.7
4273.6	2.33995	87.3	82.3
4273.8	2.33984	88.4	84.6
4274.0	2.33973	90.4	86.9
4274.2	2.33962	93.8	89.2
4274.4	2.33951	94.9	90.3
4274.6	2.33940	95.8	89.8
4274.8	2.33929	95.1	89.1
4275.0	2.33918	91.9	87.2
4275.2	2.33907	88.6	83.6
4275.4	2.33896	85.6	80.2
4275.6	2.33885	84.4	78.6
4275.8	2.33874	86.1	80.4
4276.0	2.33863	90.1	85.7
4276.2	2.33852	93.8	88.7
4276.4	2.33842	96.0	91.8
4276.6	2.33831	97.1	93.9
4276.8	2.33820	97.4	94.7
4277.0	2.33809	97.5	94.9
4277.2	2.33798	97.4	95.0
4277.4	2.33787	97.3	95.2
4277.6	2.33776	97.3	95.1
4277.8	2.33765	97.2	94.6
4278.0	2.33754	97.2	94.0
4278.2	2.33743	97.2	93.3
4278.4	2.33732	97.4	93.0
4278.6	2.33721	97.6	93.2
4278.8	2.33710	97.8	95.2
4279.0	2.33699	98.1	96.0
4279.2	2.33689	98.3	96.3
4279.4	2.33678	98.5	96.4
4279.6	2.33667	98.6	96.5
4279.8	2.33656	98.7	96.7
4280.0	2.33645	98.7	96.8
4280.2	2.33634	98.8	97.1
4280.4	2.33623	98.7	97.2
4280.6	2.33612	98.5	97.2
4280.8	2.33601	98.3	96.9
4281.0	2.33590	98.0	95.8
4281.2	2.33579	97.6	94.6
4281.4	2.33568	97.1	93.6
4281.6	2.33558	96.6	92.5
4281.8	2.33547	96.0	90.3
4282.0	2.33536	94.2	88.8
4282.2	2.33525	91.3	87.0
4282.4	2.33514	89.4	85.6
4282.6	2.33503	89.5	85.8
4282.8	2.33492	91.6	87.8
4283.0	2.33481	94.2	90.1
4283.2	2.33470	96.4	93.9
4283.4	2.33459	97.8	95.3
4283.6	2.33449	98.3	95.8
4283.8	2.33438	98.4	95.9
4284.0	2.33427	98.4	95.9
4284.2	2.33416	98.3	95.9
4284.4	2.33405	98.1	95.7
4284.6	2.33394	98.0	95.1
4284.8	2.33383	97.9	94.0
4285.0	2.33372	97.8	93.6
4285.2	2.33361	97.9	93.6
4285.4	2.33350	98.0	93.9
4285.6	2.33340	98.1	94.6
4285.8	2.33329	97.9	95.0
4286.0	2.33318	97.6	95.3
4286.2	2.33307	97.5	95.7
4286.4	2.33296	97.7	96.0
4286.6	2.33285	97.8	96.1
4286.8	2.33274	97.9	96.2
4287.0	2.33263	98.1	96.3
4287.2	2.33252	98.2	96.4
4287.4	2.33242	97.9	96.4
4287.6	2.33231	97.6	95.6
4287.8	2.33220	97.2	93.5
4288.0	2.33209	96.5	92.3
4288.2	2.33198	95.8	91.2
4288.4	2.33187	94.7	90.8
4288.6	2.33176	93.6	90.5
4288.8	2.33165	93.0	90.4
4289.0	2.33155	92.7	90.2
4289.2	2.33144	92.2	89.3
4289.4	2.33133	91.0	88.9
4289.6	2.33122	91.4	89.1
4289.8	2.33111	92.9	90.0
4290.0	2.33100	93.8	91.0
4290.2	2.33089	94.5	91.9
4290.4	2.33079	93.9	91.4
4290.6	2.33068	93.1	90.3
4290.8	2.33057	93.3	90.0

4308.0	[illegible]	97.6	95.9
4308.2	[illegible]	97.8	96.5
4308.4	[illegible]	98.0	96.5
4308.6	[illegible]	97.8	95.7
4308.8	[illegible]	97.7	94.9
4309.0	2.32072	97.4	94.0
4309.2	2.32062	96.7	93.7
4309.4	2.32051	96.2	93.8
4309.6	2.32040	96.3	94.1
4309.8	2.32029	97.2	94.5
4310.0	2.32019	97.3	95.2
4310.2	2.32008	98.1	95.7
4310.4	2.31997	98.2	96.3
4310.6	2.31986	98.4	96.7
4310.8	2.31976	98.5	96.9
4311.0	2.31965	98.6	96.7
4311.2	2.31954	98.6	96.5
4311.4	2.31943	98.5	96.2
4311.6	2.31932	98.6	96.1
4311.8	2.31922	98.6	96.1
4312.0	2.31911	98.6	96.0
4312.2	2.31900	98.6	96.0
4312.4	2.31889	98.4	96.0
4312.6	2.31879	98.3	96.0
4312.8	2.31868	98.1	95.7
4313.0	2.31857	97.6	95.2
4313.2	2.31846	95.9	94.4
4313.4	2.31836	94.4	93.1
4313.6	2.31825	93.5	91.3
4313.8	2.31814	93.8	92.3
4314.0	2.31803	95.0	92.9
4314.2	2.31793	96.9	93.8
4314.4	2.31782	97.7	94.4
4314.6	2.31771	98.2	94.8
4314.8	2.31760	98.2	95.1
4315.0	2.31750	98.0	95.3
4315.2	2.31739	97.7	95.4
4315.4	2.31728	97.5	95.4
4315.6	2.31717	97.2	95.4
4315.8	2.31707	97.0	95.0
4316.0	2.31696	96.7	94.7
4316.2	2.31685	96.2	93.2
4316.4	2.31675	95.8	90.9
4316.6	2.31664	92.7	89.1
4316.8	2.31653	91.6	88.4
4317.0	2.31642	92.6	89.1
4317.2	2.31632	95.5	91.1
4317.4	2.31621	97.5	94.7
4317.6	2.31610	98.1	96.0
4317.8	2.31599	98.4	96.6
4318.0	2.31589	98.7	97.2
4318.2	2.31578	99.0	97.4
4318.4	2.31567	99.2	97.7
4318.6	2.31557	99.2	97.6
4318.8	2.31546	98.9	96.8
4319.0	2.31535	97.8	96.0
4319.2	2.31524	95.9	95.0
4319.4	2.31514	96.0	94.1
4319.6	2.31503	95.2	93.6
4319.8	2.31492	95.5	94.1
4320.0	2.31481	96.4	95.1
4320.2	2.31471	97.4	96.0
4320.4	2.31460	98.0	96.8
4320.6	2.31449	98.4	97.3
4320.8	2.31439	98.7	97.6
4321.0	2.31428	99.1	97.8
4321.2	2.31417	99.1	97.9
4321.4	2.31406	99.2	98.0
4321.6	2.31396	99.2	98.0
4321.8	2.31385	99.2	98.1
4322.0	2.31374	99.2	98.1
4322.2	2.31364	99.3	98.1
4322.4	2.31353	99.4	98.1
4322.6	2.31342	99.5	97.8
4322.8	2.31332	99.5	97.9
4323.0	2.31321	99.5	97.9
4323.2	2.31310	99.5	97.8
4323.4	2.31299	99.5	97.8
4323.6	2.31289	99.5	97.6
4323.8	2.31278	99.4	97.4
4324.0	2.31267	99.2	97.3
4324.2	2.31257	99.0	97.2
4324.4	2.31246	98.6	97.0
4324.6	2.31235	98.3	96.4
4324.8	2.31225	97.7	96.0
4325.0	2.31214	97.0	95.2
4325.2	2.31203	96.2	94.2
4325.4	2.31192	95.7	93.5
4325.6	2.31182	95.6	93.5
4325.8	2.31171	96.6	94.0
4326.0	2.31160	97.5	94.8
4326.2	2.31150	97.8	95.6
4326.4	2.31139	98.2	96.4
4326.6	2.31128	98.3	96.8
4326.8	2.31118	98.7	97.2
4327.0	2.31107	98.9	97.5
4327.2	2.31096	99.0	97.4
4327.4	2.31086	98.9	98.0
4327.6	2.31075	98.5	97.9
4327.8	2.31064	98.1	97.2

4345.0	2.30150	98.9	97.2
4345.2	2.30139	98.9	97.4
4345.4	2.30128	99.0	97.6
4345.6	2.30118	99.1	97.8
4345.8	2.30107	99.1	97.9
4346.0	2.30097	99.2	98.1
4346.2	2.30086	99.2	98.1
4346.4	2.30075	99.3	98.2
4346.6	2.30065	99.4	98.2
4346.8	2.30054	99.5	98.2
4347.0	2.30044	99.7	98.3
4347.2	2.30033	99.9	98.3
4347.4	2.30023	99.9	98.2
4347.6	2.30012	99.9	98.1
4347.8	2.30001	99.6	98.0
4348.0	2.29991	99.5	97.9
4348.2	2.29980	99.2	97.8
4348.4	2.29970	99.0	97.6
4348.6	2.29959	98.8	97.5
4348.8	2.29948	98.4	97.2
4349.0	2.29938	98.4	96.7
4349.2	2.29927	98.5	95.7
4349.4	2.29917	98.6	96.3
4349.6	2.29906	98.9	96.9
4349.8	2.29896	99.3	97.5
4350.0	2.29885	99.7	97.9
4350.2	2.29874	99.7	98.2
4350.4	2.29864	99.5	98.2
4350.6	2.29853	99.3	98.1
4350.8	2.29843	99.2	98.0
4351.0	2.29832	99.1	97.8
4351.2	2.29822	99.0	97.6
4351.4	2.29811	99.1	97.9
4351.6	2.29801	99.2	98.2
4351.8	2.29790	99.3	98.7
4352.0	2.29779	99.5	98.6
4352.2	2.29769	99.7	98.7
4352.4	2.29758	99.7	98.5
4352.6	2.29748	99.8	98.5
4352.8	2.29737	99.7	98.1
4353.0	2.29727	99.1	97.6
4353.2	2.29716	98.4	96.8
4353.4	2.29706	97.8	95.8
4353.6	2.29695	97.2	95.4
4353.8	2.29684	97.3	95.6
4354.0	2.29674	97.5	95.9
4354.2	2.29663	97.9	96.2
4354.4	2.29653	98.2	97.0
4354.6	2.29642	98.5	97.5
4354.8	2.29632	98.8	97.6
4355.0	2.29621	98.9	97.4
4355.2	2.29611	99.0	96.0
4355.4	2.29600	98.5	92.9
4355.6	2.29589	96.2	88.6
4355.8	2.29579	91.8	83.9
4356.0	2.29568	88.5	80.8
4356.2	2.29558	87.9	81.2
4356.4	2.29547	89.8	84.2
4356.6	2.29537	92.1	88.5
4356.8	2.29526	93.6	90.1
4357.0	2.29516	93.7	89.3
4357.2	2.29505	93.2	88.5
4357.4	2.29495	92.6	89.5
4357.6	2.29484	92.8	91.0
4357.8	2.29474	94.6	92.4
4358.0	2.29463	95.8	93.9
4358.2	2.29453	96.9	95.5
4358.4	2.29442	98.0	96.5
4358.6	2.29431	98.7	96.8
4358.8	2.29421	99.0	97.3
4359.0	2.29410	99.1	98.1
4359.2	2.29400	99.3	98.2
4359.4	2.29389	99.5	98.3
4359.6	2.29379	99.6	98.6
4359.8	2.29368	99.7	98.8
4360.0	2.29358	99.8	98.8
4360.2	2.29347	99.8	98.8
4360.4	2.29337	99.8	98.8
4360.6	2.29326	99.8	98.6
4360.8	2.29316	99.8	98.6
4361.0	2.29305	99.8	98.4
4361.2	2.29295	99.8	98.4
4361.4	2.29284	99.9	98.4
4361.6	2.29274	99.9	98.2
4361.8	2.29263	99.7	98.0
4362.0	2.29253	99.0	97.8
4362.2	2.29242	98.2	96.7
4362.4	2.29232	96.8	95.6
4362.6	2.29221	95.7	94.1
4362.8	2.29211	94.4	92.4
4363.0	2.29200	93.4	91.9
4363.2	2.29190	93.8	92.8
4363.4	2.29179	95.4	93.9
4363.6	2.29169	96.3	93.6
4363.8	2.29158	95.6	92.7
4364.0	2.29148	94.1	91.3
4364.2	2.29137	93.5	91.2
4364.4	2.29127	94.4	92.8
4364.6	2.29116	96.6	94.2
4364.8	2.29106	97.9	95.2

3902.C 19.781 91.540 92.000 92.005 | 3994.5 25.567 155.956 178.223 183.342 | 4087.0 26.740 175.258 226.498 250.904 | 4179.5 28.019 183.064 251.129 280.011

Table 6-6 (Cont'd)

Sam. No.		38	39	40	41
p(atm)		3.46×10^{-3}	9.67×10^{-3}	2.01×10^{-2}	2.00×10^{-2}
P_e(atm)		1.99×10^{-1}	9.00×10^{-1}	2.80×10^{-1}	9.79×10^{-1}
u(gm/cm²)		1.69×10^{-1}	8.67×10^{-2}	1.39×10^{0}	1.38×10^{0}
ν (cm^{-1})	λ (micron)	T × 100	T × 100	T × 100	T × 100
4180.0	2.39234		98.5	84.9	74.2
4180.2	2.39223		97.8	76.0	72.9
4180.4	2.39212		97.4	69.0	69.7
4180.6	2.39200		96.4	80.5	63.4
4180.8	2.39189		92.1	72.6	55.9
4181.0	2.39177		85.3	61.0	48.9
4181.2	2.39165		77.0	46.3	29.5
4181.4	2.39154		71.6	38.7	20.1
4181.6	2.39143		74.2	41.3	21.1
4181.8	2.39131		83.7	51.5	28.3
4182.0	2.39120		91.1	64.2	41.3
4182.2	2.39109		95.1	74.5	53.4
4182.4	2.39097		96.5	78.7	58.5
4182.6	2.39086		97.8	83.0	68.2
4182.8	2.39074		98.5	87.1	74.2
4183.0	2.39063		98.7	90.9	80.0
4183.2	2.39051		99.1	93.2	85.1
4183.4	2.39040		99.3	93.9	84.9
4183.6	2.39029		99.2	94.3	87.8
4183.8	2.39017		99.3	94.8	88.2
4184.0	2.39006		99.5	95.2	88.5
4184.2	2.38994		99.5	95.4	88.8
4184.4	2.38983		99.5	95.0	88.9
4184.6	2.38971		99.5	94.1	86.3
4184.8	2.38960		99.4	93.2	87.2
4185.0	2.38949		99.4	91.3	85.9
4185.2	2.38937		99.2	91.1	84.7
4185.4	2.38926		99.1	91.7	84.0
4185.6	2.38914		99.0	91.5	83.2
4185.8	2.38903		98.9	90.7	81.6
4186.0	2.38892		98.9	89.0	79.6
4186.2	2.38880		98.3	88.1	76.5
4186.4	2.38869		97.1	86.1	72.5
4186.6	2.38857		96.8	81.7	67.2
4186.8	2.38846		91.6	74.6	60.7
4187.0	2.38834		85.9	64.0	42.9
4187.2	2.38823		81.1	52.5	33.4
4187.4	2.38812		78.7	47.7	26.6
4187.6	2.38800		81.1	49.6	28.5
4187.8	2.38789		87.4	57.2	39.5
4188.0	2.38777		93.6	71.1	55.0
4188.2	2.38766		97.0	83.8	63.8
4188.4	2.38755		98.5	89.3	78.3
4188.6	2.38743		99.0	91.5	82.3
4188.8	2.38732		99.1	92.9	83.8
4189.0	2.38720		99.5	93.3	84.8
4189.2	2.38709		99.6	93.3	85.2
4189.4	2.38698		99.8	93.1	85.2
4189.6	2.38686		99.7	92.2	84.9
4189.8	2.38675		99.6	91.2	83.9
4190.0	2.38663		99.0	89.6	80.4
4190.2	2.38652		98.6	87.5	76.4
4190.4	2.38641		97.9	83.6	71.3
4190.6	2.38629		95.5	79.9	65.4
4190.8	2.38618		92.3	74.6	56.4
4191.0	2.38607		88.7	66.1	46.9
4191.2	2.38595		86.5	55.4	40.1
4191.4	2.38584		86.5	52.7	33.4
4191.6	2.38572		89.2	56.3	37.8
4191.8	2.38561		93.1	67.3	49.7
4192.0	2.38550		96.4	79.3	62.7
4192.2	2.38538		98.6	83.7	71.0
4192.4	2.38527		99.2	86.6	75.7
4192.6	2.38515		99.3	89.5	78.6
4192.8	2.38504		99.4	91.2	80.4
4193.0	2.38493		99.5	92.0	80.4
4193.2	2.38481		99.4	90.9	78.4
4193.4	2.38470		98.5	87.6	72.1
4193.6	2.38459		97.6	81.9	62.2
4193.8	2.38447		95.3	74.3	55.9
4194.0	2.38436		92.0	65.5	45.2
4194.2	2.38424		88.5	56.5	32.3
4194.4	2.38413		84.9	49.2	24.1
4194.6	2.38402		79.0	45.0	20.4
4194.8	2.38390		78.6	43.0	20.1
4195.0	2.38379		82.3	48.4	27.3
4195.2	2.38368		87.7	59.6	33.6
4195.4	2.38356		90.4	64.1	37.3
4195.6	2.38345		89.5	60.8	35.4
4195.8	2.38334		89.2	57.2	35.2
4196.0	2.38322		89.8	57.9	38.6
4196.2	2.38311		92.8	70.5	50.9
4196.4	2.38299		95.7	81.5	63.6
4196.6	2.38288		97.3	84.9	69.0
4196.8	2.38277		97.7	83.8	71.8

Sam. No.		38	39	40	41
p(atm)		3.46×10^{-3}	9.67×10^{-3}	2.01×10^{-2}	2.00×10^{-2}
P_e(atm)		1.99×10^{-1}	9.00×10^{-1}	1.80×10^{-1}	9.79×10^{-1}
u(gm/cm²)		1.69×10^{-1}	8.67×10^{-2}	1.39×10^{0}	1.38×10^{0}
ν (cm^{-1})	λ (micron)	T × 100	T × 100	T × 100	T × 100
4217.0	2.37135		89.0	48.8	32.8
4217.2	2.37124		90.4	54.6	37.7
4217.4	2.37113		92.9	68.5	50.0
4217.6	2.37102		94.8	74.9	59.1
4217.8	2.37090		95.8	74.2	61.2
4218.0	2.37079		95.2	71.5	56.4
4218.2	2.37068		94.4	70.9	55.9
4218.4	2.37057		94.6	74.6	56.4
4218.6	2.37045		96.3	83.3	64.6
4218.8	2.37034		97.7	89.1	77.8
4219.0	2.37023		98.9	91.4	84.7
4219.2	2.37012		99.2	92.8	87.0
4219.4	2.37001		99.3	93.1	88.0
4219.6	2.36989		99.4	92.8	88.1
4219.8	2.36978		99.4	92.2	87.6
4220.0	2.36967		99.5	91.6	86.7
4220.2	2.36956		99.4	90.9	83.4
4220.4	2.36944		99.0	88.7	79.5
4220.6	2.36933		98.2	83.8	72.9
4220.8	2.36922		97.3	77.7	66.7
4221.0	2.36911		96.6	71.0	55.5
4221.2	2.36899		96.2	67.6	51.2
4221.4	2.36888		95.1	69.2	53.5
4221.6	2.36877		96.6	74.6	64.5
4221.8	2.36866		97.8	80.8	72.5
4222.0	2.36855		98.3	83.9	76.2
4222.2	2.36843		98.6	87.1	80.4
4222.4	2.36832		98.7	90.3	82.7
4222.6	2.36821		98.6	92.1	84.1
4222.8	2.36810		98.5	93.0	85.2
4223.0	2.36798		98.6	93.4	86.1
4223.2	2.36787		98.9	93.6	85.6
4223.4	2.36776		98.9	92.4	83.1
4223.6	2.36765		98.4	88.8	75.7
4223.8	2.36754		96.9	81.2	65.8
4224.0	2.36742		95.2	77.6	58.5
4224.2	2.36731		94.9	71.2	55.5
4224.4	2.36720		95.6	71.9	58.1
4224.6	2.36709		97.2	78.8	67.5
4224.8	2.36698		98.5	88.3	77.8
4225.0	2.36686		99.3	92.9	86.1
4225.2	2.36675		99.7	95.6	90.7
4225.4	2.36664		99.8	96.2	92.5
4225.6	2.36653		99.9	96.5	95.2
4225.8	2.36642		100.0	96.7	93.5
4226.0	2.36630		100.0	96.6	93.5
4226.2	2.36619		100.0	96.9	93.5
4226.4	2.36608		100.0	97.0	93.3
4226.6	2.36597		99.9	96.9	92.8
4226.8	2.36586		99.7	96.4	92.5
4227.0	2.36574		99.6	96.6	91.7
4227.2	2.36563		99.5	96.2	91.4
4227.4	2.36552		99.4	96.0	92.1
4227.6	2.36541		99.6	96.1	93.0
4227.8	2.36530		99.8	96.1	93.1
4228.0	2.36518		99.9	95.8	92.6
4228.2	2.36507		100.0	95.5	92.1
4228.4	2.36496		100.0	95.0	91.7
4228.6	2.36485		100.0	94.5	91.0
4228.8	2.36474		100.0	93.7	90.2
4229.0	2.36463		99.9	92.4	87.5
4229.2	2.36451		99.5	90.7	81.8
4229.4	2.36440		98.4	88.0	74.6
4229.6	2.36429		97.1	81.7	63.3
4229.8	2.36418		96.1	73.1	55.4
4230.0	2.36407		95.0	66.2	53.4
4230.2	2.36395		95.4	65.1	57.0
4230.4	2.36384		96.7	69.9	65.5
4230.6	2.36373		97.7	79.1	73.8
4230.8	2.36362		98.2	83.6	77.6
4231.0	2.36351		98.2	84.2	77.6
4231.2	2.36340		98.1	84.1	78.4
4231.4	2.36328		98.1	85.7	82.5
4231.6	2.36317		98.2	89.3	84.8
4231.8	2.36306		98.5	91.7	88.4
4232.0	2.36295		99.1	94.2	89.8
4232.2	2.36284		99.8	94.3	91.4
4232.4	2.36273		100.0	95.0	92.0
4232.6	2.36261		100.0	95.0	92.8
4232.8	2.36250		100.0	95.0	93.2
4233.0	2.36239		100.0	95.3	93.5
4233.2	2.36228		100.0	95.6	93.4
4233.4	2.36217		100.0	96.1	93.4
4233.6	2.36206		100.0	96.1	92.7
4233.8	2.36194		100.0	95.6	92.5

Sam. No.		38	39	40	41
p(atm)		3.46×10^{-3}	9.67×10^{-3}	2.01×10^{-2}	2.00×10^{-2}
P_e(atm)		1.99×10^{-1}	9.00×10^{-1}	2.80×10^{-1}	9.79×10^{-1}
u(gm/cm²)		1.69×10^{-1}	8.67×10^{-2}	1.39×10^{0}	1.38×10^{0}
ν (cm^{-1})	λ (micron)	T × 100	T × 100	T × 100	T × 100
4254.0	2.35073		99.3	97.1	81.6
4254.2	2.35062		99.3	90.4	84.0
4254.4	2.35051		99.6	93.3	86.2
4254.6	2.35040		99.6	95.1	88.5
4254.8	2.35029		99.6	93.7	89.0
4255.0	2.35018		99.3	90.3	86.1
4255.2	2.35007		98.7	84.1	78.6
4255.4	2.34996		97.6	78.1	70.7
4255.6	2.34984		96.2	76.8	65.1
4255.8	2.34973		96.1	78.9	64.1
4256.0	2.34962		96.7	84.6	67.8
4256.2	2.34951		97.8	91.4	76.9
4256.4	2.34940		98.8	95.7	86.3
4256.6	2.34929		99.5	96.8	91.1
4256.8	2.34918		99.9	96.8	93.5
4257.0	2.34907		99.9	96.9	94.7
4257.2	2.34896		99.9	96.7	94.9
4257.4	2.34885		99.9	97.0	95.1
4257.6	2.34874		100.0	97.4	95.3
4257.8	2.34863		100.0	97.4	95.3
4258.0	2.34852			97.4	95.7
4258.2	2.34841			96.9	95.7
4258.4	2.34830			96.6	95.4
4258.6	2.34819			95.9	94.6
4258.8	2.34808			94.9	92.9
4259.0	2.34797			93.0	90.5
4259.2	2.34786			90.7	87.7
4259.4	2.34775			89.4	86.0
4259.6	2.34764			89.6	85.0
4259.8	2.34753			90.3	86.7
4260.0	2.34742			90.5	87.5
4260.2	2.34731			90.7	88.0
4260.4	2.34720			91.5	88.8
4260.6	2.34709			92.7	90.3
4260.8	2.34698			94.9	91.9
4261.0	2.34687			96.0	93.2
4261.2	2.34676			96.3	94.3
4261.4	2.34665			96.3	94.4
4261.6	2.34654			95.9	94.1
4261.8	2.34643			95.4	94.1
4262.0	2.34632			95.4	94.1
4262.2	2.34621			96.2	94.2
4262.4	2.34610			96.5	94.3
4262.6	2.34599			96.1	94.4
4262.8	2.34588			95.5	93.3
4263.0	2.34577			95.0	92.2
4263.2	2.34566			94.9	91.7
4263.4	2.34555			94.1	91.8
4263.6	2.34544			92.4	88.6
4263.8	2.34533			80.0	84.9
4264.0	2.34522			85.0	80.3
4264.2	2.34511			81.0	74.0
4264.4	2.34500			80.6	70.6
4264.6	2.34489			82.7	72.1
4264.8	2.34478			89.0	76.8
4265.0	2.34467			92.1	84.0
4265.2	2.34456			94.3	90.2
4265.4	2.34445			96.2	93.3
4265.6	2.34434			96.9	94.7
4265.8	2.34423			97.0	94.7
4266.0	2.34412			97.1	94.7
4266.2	2.34401			97.1	95.3
4266.4	2.34390			97.5	95.8
4266.6	2.34379			97.5	95.9
4266.8	2.34368			97.5	95.7
4267.0	2.34357			97.3	95.1
4267.2	2.34346			97.3	94.5
4267.4	2.34335			97.3	93.9
4267.6	2.34324			97.3	93.9
4267.8	2.34313			97.5	93.8
4268.0	2.34302			97.7	94.5
4268.2	2.34291			97.7	94.8
4268.4	2.34280			97.7	94.3
4268.6	2.34269			97.6	93.6
4268.8	2.34258			96.7	90.9
4269.0	2.34247			94.1	87.9
4269.2	2.34236			86.4	81.9
4269.4	2.34225			81.1	71.7
4269.6	2.34214			75.3	63.6
4269.8	2.34203			73.4	56.6
4270.0	2.34192			76.2	56.9
4270.2	2.34181			83.2	66.9
4270.4	2.34170			89.9	76.5
4270.6	2.34159			91.6	83.3
4270.8	2.34148			90.3	83.1

Sam. No.		38	39	40	41
p(atm)		3.46×10^{-3}	9.67×10^{-3}	2.01×10^{-2}	2.00×10^{-2}
P_e(atm)		1.99×10^{-1}	9.00×10^{-1}	2.80×10^{-1}	9.79×10^{-1}
u(gm/cm²)		1.69×10^{-1}	8.67×10^{-2}	1.39×10^{0}	1.38×10^{0}
ν (cm^{-1})	λ (micron)	T × 100	T × 100	T × 100	T × 100
4291.0	2.33046			94.2	90.0
4291.2	2.33035			95.3	90.9
4291.4	2.33024			96.3	91.9
4291.6	2.33013			97.0	92.1
4291.8	2.33002			97.5	92.8
4292.0	2.32992			97.7	93.9
4292.2	2.32981			98.0	95.2
4292.4	2.32970			98.6	95.8
4292.6	2.32959			98.7	96.5
4292.8	2.32948			93.7	96.9
4293.0	2.32937			98.7	97.0
4293.2	2.32926			98.7	97.0
4293.4	2.32916			98.6	97.0
4293.6	2.32905			98.2	96.2
4293.8	2.32894			97.4	94.5
4294.0	2.32883			95.5	91.3
4294.2	2.32872			92.5	88.4
4294.4	2.32861			90.2	85.5
4294.6	2.32851			89.5	84.7
4294.8	2.32840			90.7	86.0
4295.0	2.32829			93.5	90.2
4295.2	2.32818			95.5	92.5
4295.4	2.32807			95.7	93.1
4295.6	2.32796			95.4	93.4
4295.8	2.32786			96.1	93.8
4296.0	2.32775			96.4	94.1
4296.2	2.32764			97.3	94.9
4296.4	2.32753			98.3	95.6
4296.6	2.32742			98.4	95.7
4296.8	2.32731			98.4	95.4
4297.0	2.32721			98.2	95.0
4297.2	2.32710			98.1	94.3
4297.4	2.32699			98.3	93.2
4297.6	2.32688			97.8	93.2
4297.8	2.32677			97.6	93.9
4298.0	2.32666			97.9	94.8
4298.2	2.32656			98.3	95.9
4298.4	2.32645			98.5	96.0
4298.6	2.32634			98.6	96.4
4298.8	2.32623			98.7	96.4
4299.0	2.32612			98.7	96.5
4299.2	2.32601			98.7	96.5
4299.4	2.32591			98.7	96.5
4299.6	2.32580			98.6	96.3
4299.8	2.32569			98.5	96.0
4300.0	2.32558			98.4	95.6
4300.2	2.32547			98.2	95.1
4300.4	2.32537			98.1	94.5
4300.6	2.32526			98.0	93.7
4300.8	2.32515			98.0	93.7
4301.0	2.32504			98.0	95.0
4301.2	2.32493			98.2	96.4
4301.4	2.32482			98.4	96.7
4301.6	2.32472			98.6	96.3
4301.8	2.32461			98.0	95.9
4302.0	2.32450			97.6	95.2
4302.2	2.32439			96.8	94.6
4302.4	2.32428			95.9	92.8
4302.6	2.32418			94.4	90.9
4302.8	2.32407			92.6	90.0
4303.0	2.32396			92.5	89.4
4303.2	2.32385			92.9	88.8
4303.4	2.32374			93.6	87.6
4303.6	2.32364			92.6	85.9
4303.8	2.32353			90.4	84.1
4304.0	2.32342			85.1	73.3
4304.2	2.32331			76.7	68.4
4304.4	2.32320			75.4	67.1
4304.6	2.32310			75.6	68.9
4304.8	2.32299			78.6	72.2
4305.0	2.32288			81.4	73.6
4305.2	2.32277			82.1	72.3
4305.4	2.32266			80.6	71.4
4305.6	2.32256			81.6	74.6
4305.8	2.32245			85.3	77.3
4306.0	2.32234			89.2	78.9
4306.2	2.32223			88.3	75.7
4306.4	2.32213			84.2	70.0
4306.6	2.32202			79.3	64.9
4306.8	2.32191			77.6	63.4
4307.0	2.32180			80.6	67.9
4307.2	2.32169			86.3	76.9
4307.4	2.32159			92.2	86.1
4307.6	2.32148			96.0	92.2
4307.8	2.32137			97.3	94.9

Sam. No.		38	39	40	41
p(atm)		3.46×10^{-3}	9.67×10^{-3}	2.01×10^{-2}	2.00×10^{-2}
P_e(atm)		1.99×10^{-1}	9.00×10^{-1}	2.80×10^{-1}	9.79×10^{-1}
u(gm/cm²)		1.69×10^{-1}	8.67×10^{-2}	1.39×10^{0}	1.38×10^{0}
ν (cm^{-1})	λ (micron)	T × 100	T × 100	T × 100	T × 100
4328.0	2.31054			97.7	96.7
4328.2	2.31043			97.4	96.2
4328.4	2.31032			97.3	95.6
4328.6	2.31022			96.9	94.8
4328.8	2.31011			95.6	93.7
4329.0	2.31000			94.2	92.2
4329.2	2.30990			93.2	91.4
4329.4	2.30979			94.3	91.8
4329.6	2.30968			96.8	93.5
4329.8	2.30958			97.8	95.7
4330.0	2.30947			98.9	96.8
4330.2	2.30936			99.1	97.2
4330.4	2.30926			99.3	97.6
4330.6	2.30915			99.5	97.9
4330.8	2.30904			99.6	98.1
4331.0	2.30894			99.7	98.1
4331.2	2.30883			99.7	97.8
4331.4	2.30872			99.8	97.5
4331.6	2.30862			99.8	97.5
4331.8	2.30851			99.8	97.5
4332.0	2.30840			99.9	97.6
4332.2	2.30830			99.9	97.8
4332.4	2.30819			99.9	98.0
4332.6	2.30808			99.9	98.1
4332.8	2.30798			99.9	97.9
4333.0	2.30787			99.8	97.7
4333.2	2.30776			99.7	97.7
4333.4	2.30766			99.5	97.8
4333.6	2.30755			99.3	98.0
4333.8	2.30744			99.2	98.1
4334.0	2.30734			99.0	98.3
4334.2	2.30723			98.9	98.4
4334.4	2.30712			98.7	98.4
4334.6	2.30702			98.5	98.5
4334.8	2.30691			98.2	98.2
4335.0	2.30681			98.6	97.7
4335.2	2.30670			98.7	97.6
4335.4	2.30659			99.0	97.9
4335.6	2.30649			99.0	98.2
4335.8	2.30638			98.9	98.1
4336.0	2.30627			98.7	97.7
4336.2	2.30617			98.3	97.3
4336.4	2.30606			97.0	97.1
4336.6	2.30595			98.0	97.1
4336.8	2.30585			96.2	97.2
4337.0	2.30574			98.4	97.4
4337.2	2.30563			98.9	97.8
4337.4	2.30553			99.4	98.1
4337.6	2.30542			99.8	98.3
4337.8	2.30532			99.7	98.5
4338.0	2.30521			99.6	98.6
4338.2	2.30510			99.5	98.7
4338.4	2.30500			99.3	98.8
4338.6	2.30489			99.0	98.6
4338.8	2.30478			98.8	98.2
4339.0	2.30468			98.6	97.8
4339.2	2.30457			98.4	97.5
4339.4	2.30447			98.2	97.2
4339.6	2.30436			98.1	97.1
4339.8	2.30425			98.2	97.5
4340.0	2.30415			98.6	97.9
4340.2	2.30404			99.1	98.2
4340.4	2.30394			99.3	98.2
4340.6	2.30383			99.6	98.2
4340.8	2.30372			99.5	98.2
4341.0	2.30362			99.7	98.1
4341.2	2.30351			99.7	98.0
4341.4	2.30340			99.5	97.9
4341.6	2.30330			99.3	97.8
4341.8	2.30319			99.1	97.6
4342.0	2.30309			98.8	97.2
4342.2	2.30298			98.4	96.6
4342.4	2.30287			98.1	96.7
4342.6	2.30277			98.3	96.8
4342.8	2.30266			98.4	96.9
4343.0	2.30256			98.9	97.2
4343.2	2.30245			99.1	97.6
4343.4	2.30234			99.4	97.9
4343.6	2.30224			99.5	97.9
4343.8	2.30213			99.4	97.9
4344.0	2.30203			99.3	97.8
4344.2	2.30192			99.2	97.6
4344.4	2.30181			99.0	97.4
4344.6	2.30171			98.8	97.3
4344.8	2.30160			98.8	97.3

3852.5	8.854	42.386	42.500	42.500
3853.0	8.994	42.886	43.000	43.000
3853.5	9.252	43.386	43.500	43.500
3854.0	9.700	43.886	44.000	44.000
3854.5	10.111	44.386	44.500	44.500
3855.0	10.298	44.886	45.000	45.000
3855.5	10.368	45.386	45.500	45.500
3856.0	10.405	45.886	46.000	46.000
3856.5	10.474	46.386	46.500	46.500
3857.0	10.608	46.886	47.000	47.000
3857.5	10.845	47.386	47.500	47.500
3858.0	10.893	47.886	48.000	48.000
3858.5	10.913	48.390	48.500	48.500
3859.0	10.933	48.886	49.000	49.000
3859.5	10.959	49.385	49.500	49.500
3860.0	10.972	49.884	50.000	50.000
3860.5	10.983	50.383	50.500	50.500
3861.0	11.001	50.881	51.000	51.000
3861.5	11.006	51.379	51.500	51.500
3862.0	11.324	51.877	52.000	52.000
3862.5	11.439	52.377	52.500	52.500
3863.0	11.496	52.877	53.000	53.000
3863.5	11.597	53.377	53.500	53.500
3864.0	11.675	53.877	54.000	54.000
3864.5	11.832	54.377	54.500	54.500
3865.0	12.067	54.877	55.000	55.000
3865.5	12.319	55.377	55.500	55.500
3866.0	12.431	55.877	56.000	56.000
3866.5	12.497	56.377	56.500	56.500
3867.0	12.516	56.877	57.000	57.000
3867.5	12.530	57.377	57.500	57.500
3868.0	12.548	57.877	58.000	58.000
3868.5	12.567	58.377	58.500	58.500
3869.0	12.697	58.877	59.000	59.000
3869.5	12.948	59.377	59.500	59.500
3870.0	13.198	59.877	60.000	60.000
3870.5	13.512	60.377	60.500	60.500
3871.0	13.661	60.877	61.000	61.000
3871.5	13.797	61.377	61.500	61.500
3872.0	13.891	61.877	62.000	62.000
3872.5	13.912	62.377	62.500	62.500
3873.0	13.928	62.877	63.000	63.000
3873.5	13.967	63.377	63.500	63.500
3874.0	14.150	63.877	64.000	64.000
3874.5	14.442	64.377	64.500	64.500
3875.0	14.641	64.877	65.000	65.000
3875.5	14.680	65.377	65.500	65.500
3876.0	14.694	65.877	66.000	66.000
3876.5	14.713	66.377	66.500	66.500
3877.0	14.732	66.876	67.000	67.000
3877.5	14.744	67.372	67.500	67.500
3878.0	14.755	67.860	68.000	68.000
3878.5	14.763	68.342	68.500	68.500
3879.0	14.773	68.823	69.000	69.000
3879.5	14.797	69.307	69.500	69.500
3880.0	14.939	69.799	70.000	70.000
3880.5	15.263	70.297	70.500	70.500
3881.0	15.479	70.797	71.000	71.000
3881.5	15.611	71.297	71.500	71.500
3882.0	15.651	71.797	72.000	72.000
3882.5	15.671	72.297	72.500	72.500
3883.0	15.724	72.797	73.000	73.000
3883.5	15.851	73.297	73.500	73.500
3884.0	15.917	73.797	74.000	74.000
3884.5	15.956	74.297	74.500	74.500
3885.0	16.005	74.797	75.000	75.000
3885.5	16.207	75.297	75.500	75.500
3886.0	16.545	75.797	76.000	76.000
3886.5	16.720	76.297	76.500	76.500
3887.0	16.763	76.797	77.000	77.000
3887.5	16.784	77.297	77.500	77.500
3888.0	16.798	77.797	78.000	78.000
3888.5	16.808	78.293	78.500	78.500
3889.0	16.817	78.783	79.000	79.000
3889.5	16.828	79.267	79.500	79.500
3890.0	16.844	79.752	80.000	80.000
3890.5	16.874	80.244	80.500	80.500
3891.0	17.012	80.743	81.000	81.000
3891.5	17.300	81.242	81.500	81.500
3892.0	17.479	81.742	82.000	82.000
3892.5	17.570	82.242	82.500	82.500
3893.0	17.653	82.742	83.000	83.000
3893.5	17.689	83.242	83.500	83.500
3894.0	17.742	83.742	84.000	84.000
3894.5	17.841	84.241	84.500	84.500
3895.0	17.866	84.739	85.000	85.000
3895.5	17.878	85.229	85.500	85.500
3896.0	17.885	85.702	86.000	86.000
3896.5	17.896	86.151	86.500	86.500
3897.0	17.910	86.599	87.000	87.000
3897.5	17.941	87.068	87.500	87.500
3898.0	18.039	87.551	88.000	88.000
3898.5	18.151	88.043	88.500	88.500
3899.0	18.282	88.540	89.000	89.000
3899.5	18.593	89.040	89.500	89.500
3900.0	18.752	89.540	90.000	90.000
3900.5	18.789	90.040	90.500	90.500
3901.0	18.814	90.540	91.000	91.000
3901.5	18.892	91.040	91.500	91.500
3902.0	[illegible]	91.540	92.000	92.000

3945.0	23.630	127.887	134.741	135.000
3945.5	23.635	128.192	135.231	135.500
3946.0	23.638	128.440	135.712	136.000
3946.5	23.642	128.713	136.200	136.500
3947.0	23.674	129.076	136.697	137.000
3947.5	23.766	129.541	137.197	137.500
3948.0	23.838	130.034	137.697	138.000
3948.5	23.890	130.519	138.197	138.500
3949.0	23.901	130.971	138.697	139.000
3949.5	23.922	131.432	139.197	139.500
3950.0	24.045	131.921	139.697	140.000
3950.5	24.156	132.414	140.197	140.500
3951.0	24.197	132.876	140.696	141.000
3951.5	24.204	133.245	141.193	141.500
3952.0	24.209	133.561	141.687	142.000
3952.5	24.225	133.950	142.184	142.500
3953.0	24.264	134.411	142.684	143.000
3953.5	24.325	134.858	143.163	143.500
3954.0	24.338	135.197	143.669	144.000
3954.5	24.341	135.429	144.132	144.500
3955.0	24.348	135.697	144.598	145.000
3955.5	24.371	136.041	145.084	145.500
3956.0	24.381	136.318	145.560	146.000
3956.5	24.389	136.643	146.042	146.500
3957.0	24.434	137.066	146.540	147.000
3957.5	24.465	137.450	147.037	147.500
3958.0	24.476	137.805	147.534	148.000
3958.5	24.509	138.192	148.030	148.500
3959.0	24.520	138.507	148.514	149.000
3959.5	24.536	138.823	149.000	149.500
3960.0	24.563	139.187	149.488	150.000
3960.5	24.569	139.436	149.957	150.500
3961.0	24.575	139.681	150.430	151.000
3961.5	24.615	140.024	150.920	151.500
3962.0	24.705	140.470	151.415	152.000
3962.5	24.747	140.880	151.905	152.500
3963.0	24.752	141.126	152.353	153.000
3963.5	24.757	141.311	152.774	153.500
3964.0	24.772	141.574	153.230	154.000
3964.5	24.781	141.836	153.696	154.499
3965.0	24.799	142.132	154.164	154.996
3965.5	24.804	142.321	154.568	155.487
3966.0	24.806	142.409	154.906	155.947
3966.5	24.808	142.487	155.234	156.408
3967.0	24.811	142.589	155.565	156.878
3967.5	24.816	142.758	155.958	157.367
3968.0	24.822	142.950	156.393	157.863
3968.5	24.826	143.163	156.837	158.361
3969.0	24.855	143.521	157.316	158.859
3969.5	24.903	143.928	157.805	159.359
3970.0	24.911	144.192	158.261	159.859
3970.5	24.914	144.375	158.688	160.359
3971.0	24.919	144.571	159.133	160.859
3971.5	24.922	144.799	159.588	161.359
3972.0	24.947	145.142	160.073	161.859
3972.5	25.001	145.592	160.571	162.359
3973.0	25.035	146.029	161.068	162.859
3973.5	25.047	146.395	161.563	163.359
3974.0	25.059	146.799	162.060	163.859
3974.5	25.112	147.219	162.558	164.359
3975.0	25.137	147.640	163.058	164.859
3975.5	25.166	148.054	163.555	165.359
3976.0	25.198	148.455	164.052	165.859
3976.5	25.240	148.873	164.532	166.357
3977.0	25.255	149.117	164.932	166.844
3977.5	25.258	149.214	165.230	167.298
3978.0	25.259	149.287	165.498	167.735
3978.5	25.262	149.409	165.842	168.202
3979.0	25.266	149.574	166.251	168.692
3979.5	25.273	149.811	166.692	169.187
3980.0	25.288	150.088	167.146	169.684
3980.5	25.295	150.323	167.588	170.181
3981.0	25.307	150.558	168.032	170.679
3981.5	25.312	150.768	168.465	171.178
3982.0	25.326	151.109	168.944	171.676
3982.5	25.360	151.522	169.435	172.174
3983.0	25.383	151.868	169.896	172.667
3983.5	25.393	152.035	170.266	173.164
3984.0	25.395	152.118	170.564	173.602
3984.5	25.397	152.242	170.889	174.073
3985.0	25.402	152.474	171.306	174.564
3985.5	25.414	152.678	171.713	175.058
3986.0	25.419	152.867	172.120	175.537
3986.5	25.425	152.989	172.443	175.962
3987.0	25.428	153.036	172.653	176.338
3987.5	25.428	153.075	172.848	176.701
3988.0	25.428	153.114	173.054	177.075
3988.5	25.429	153.165	173.292	177.482
3989.0	25.430	153.258	173.598	177.938
3989.5	25.434	153.479	174.009	178.424
3990.0	25.446	153.792	174.491	178.919
3990.5	25.467	154.176	174.984	179.416
3991.0	25.511	154.604	175.471	179.912
3991.5	25.539	154.904	175.909	180.404
3992.0	25.542	155.050	176.283	180.892
3992.5	25.546	155.236	176.679	181.386
3993.0	25.557	155.479	177.101	181.878
3993.5	25.561	155.620	177.461	182.360
3994.0	25.563	155.738	177.809	182.846
3994.5	25.567	155.956	178.223	183.342

4037.5	26.206	168.064	206.704	221.161
4038.0	26.206	168.090	206.821	[illegible]
4038.5	26.206	168.097	206.923	221.561
4039.0	26.206	168.125	207.133	221.799
4039.5	26.207	168.176	[illegible]	222.119
4040.0	26.209	168.236	207.411	222.492
4040.5	26.209	168.295	207.676	222.876
4041.0	26.210	168.329	207.938	223.201
4041.5	26.210	168.355	208.115	223.473
4042.0	26.210	168.387	208.249	223.771
4042.5	26.210	168.433	208.430	224.116
4043.0	26.211	168.511	208.590	224.522
4043.5	26.222	168.697	208.837	224.990
4044.0	26.240	169.017	209.199	225.484
4044.5	26.262	169.368	209.665	225.979
4045.0	26.317	169.759	210.151	226.474
4045.5	26.354	170.103	210.639	226.967
4046.0	26.380	170.243	211.103	227.436
4046.5	26.396	170.304	211.466	227.846
4047.0	26.405	170.343	211.704	228.196
4047.5	26.410	170.372	211.979	228.496
4048.0	26.413	170.401	212.326	228.774
4048.5	26.415	170.425	212.180	229.019
4049.0	26.417	170.443	212.313	229.226
4049.5	26.419	170.461	212.414	229.422
4050.0	26.420	170.497	212.510	229.660
4050.5	26.422	170.524	212.659	229.977
4051.0	26.424	170.566	212.879	230.311
4051.5	26.426	170.620	213.079	230.644
4052.0	26.428	170.752	213.291	231.048
4052.5	26.430	170.883	213.612	231.451
4053.0	26.432	170.922	213.851	231.736
4053.5	26.433	170.939	213.996	231.935
4054.0	26.435	170.953	214.051	232.105
4054.5	26.436	170.971	214.152	232.303
4055.0	26.437	170.995	214.295	232.535
4055.5	26.438	171.012	214.430	232.726
4056.0	26.440	171.025	214.513	232.880
4056.5	26.442	171.038	214.597	233.049
4057.0	26.444	171.061	214.700	233.265
4057.5	26.446	171.125	214.873	233.581
4058.0	26.449	171.198	215.128	233.941
4058.5	26.451	171.234	215.300	234.236
4059.0	26.454	171.271	215.465	234.548
4059.5	26.456	171.342	215.700	234.950
4060.0	26.459	171.500	216.021	235.415
4060.5	26.462	171.810	216.450	235.896
4061.0	26.464	172.063	216.862	236.352
4061.5	26.467	172.135	217.120	236.726
4062.0	26.469	172.166	217.277	237.024
4062.5	26.471	172.193	217.439	237.298
4063.0	26.474	172.215	217.602	237.534
4063.5	26.476	172.230	217.709	237.704
4064.0	26.478	172.241	217.781	237.848
4064.5	26.481	172.252	217.845	237.976
4065.0	26.484	172.262	217.916	238.113
4065.5	26.487	172.276	218.018	238.282
4066.0	26.489	172.291	218.147	238.465
4066.5	26.492	172.304	218.261	238.620
4067.0	26.495	172.315	218.341	238.751
4067.5	26.499	172.324	218.412	238.869
4068.0	26.503	172.332	218.477	238.982
4068.5	26.507	172.341	218.541	239.094
4069.0	26.511	172.350	218.604	239.211
4069.5	26.514	172.359	218.677	239.339
4070.0	26.517	172.371	218.769	239.499
4070.5	26.521	172.386	218.891	239.682
4071.0	26.524	172.400	219.008	239.849
4071.5	26.528	172.413	219.099	239.998
4072.0	26.533	172.426	219.174	240.146
4072.5	26.538	172.444	219.250	240.333
4073.0	26.543	172.476	219.360	240.594
4073.5	26.548	172.577	219.601	240.978
4074.0	26.552	172.772	219.958	241.430
4074.5	26.556	172.907	220.305	241.839
4075.0	26.561	172.970	220.537	242.219
4075.5	26.566	173.050	220.817	242.620
4076.0	26.571	173.101	221.072	242.957
4076.5	26.576	173.127	221.228	243.202
4077.0	26.582	173.150	221.345	243.426
4077.5	26.588	173.176	221.473	243.688
4078.0	26.594	173.213	221.623	243.999
4078.5	26.599	173.266	221.850	244.401
4079.0	26.604	173.438	222.193	244.872
4079.5	26.610	173.722	222.626	245.363
4080.0	26.615	173.992	223.072	245.853
4080.5	26.621	174.119	223.451	246.325
4081.0	26.626	174.263	223.780	246.797
4081.5	26.633	174.466	224.183	247.256
4082.0	26.640	174.567	224.500	247.619
4082.5	26.648	174.598	224.645	247.877
4083.0	26.657	174.621	224.743	248.087
4083.5	26.668	174.641	224.832	248.283
4084.0	26.681	174.664	224.928	248.503
4084.5	26.694	174.714	225.072	248.802
4085.0	26.707	174.802	225.323	249.202
4085.5	26.719	174.877	225.581	249.598
4086.0	26.730	175.001	225.843	250.027
4086.5	26.740	175.168	226.197	250.479
4087.0	26.748	175.258	226.498	250.904

4130.0	27.386	179.265	238.575	269.176
4130.5	27.393	179.273	238.638	269.293
4131.0	27.400	179.282	238.711	269.427
4131.5	27.407	179.294	238.793	269.579
4132.0	27.414	179.310	238.888	269.764
4132.5	27.421	179.349	239.023	270.006
4133.0	27.428	179.450	239.284	270.352
4133.5	27.435	179.650	239.677	270.811
4134.0	27.442	179.873	240.089	271.296
4134.5	27.448	180.061	240.472	271.771
4135.0	27.455	180.230	240.933	272.226
4135.5	27.462	180.306	241.032	272.592
4136.0	27.469	180.325	241.117	272.826
4136.5	27.476	180.339	241.185	272.997
4137.0	27.483	180.352	241.254	273.156
4137.5	27.490	180.370	241.346	273.341
4138.0	27.497	180.414	241.503	273.603
4138.5	27.503	180.550	241.806	273.996
4139.0	27.510	180.785	242.222	274.464
4139.5	27.517	180.962	242.502	274.932
4140.0	27.524	181.031	242.776	275.298
4140.5	27.531	181.054	242.879	275.541
4141.0	27.537	181.077	242.985	275.745
4141.5	27.544	181.133	243.107	276.065
4142.0	27.551	181.236	243.471	276.381
4142.5	27.558	181.316	243.686	276.756
4143.0	27.564	181.351	243.849	277.050
4143.5	27.571	181.369	243.939	277.267
4144.0	27.578	181.379	243.991	277.393
4144.5	27.584	181.386	244.049	277.500
4145.0	27.591	181.398	244.142	277.627
4145.5	27.598	181.420	244.291	277.824
4146.0	27.604	181.454	244.464	278.038
4146.5	27.611	181.513	244.586	278.406
4147.0	27.617	181.548	244.916	278.701
4147.5	27.624	181.559	244.975	278.851
4148.0	27.631	181.568	244.928	278.951
4148.5	27.637	181.579	245.006	279.066
4149.0	27.644	181.608	245.153	279.268
4149.5	27.650	181.680	245.396	279.590
4150.0	27.657	181.750	245.638	279.850
4150.5	27.663	181.772	245.731	280.153
4151.0	27.670	181.781	245.770	280.252
4151.5	27.676	181.788	245.808	280.332
4152.0	27.683	181.794	245.854	280.416
4152.5	27.689	181.804	245.919	280.533
4153.0	27.696	181.842	246.058	280.733
4153.5	27.702	181.911	246.295	281.056
4154.0	27.708	181.966	246.490	281.392
4154.5	27.715	182.039	246.720	281.731
4155.0	27.721	182.119	246.959	282.160
4155.5	27.728	182.150	247.093	282.354
4156.0	27.734	182.178	247.227	282.371
4156.5	27.740	182.202	247.346	282.796
4157.0	27.747	182.214	247.401	282.931
4157.5	27.753	182.222	247.457	283.032
4158.0	27.759	182.230	247.525	283.156
4158.5	27.766	182.252	247.621	283.323
4159.0	27.772	182.339	247.834	283.613
4159.5	27.778	182.477	248.141	284.015
4160.0	27.784	182.547	248.319	284.330
4160.5	27.791	182.563	248.383	284.483
4161.0	27.797	182.573	248.428	284.578
4161.5	27.803	182.581	248.468	284.652
4162.0	27.809	182.586	248.506	284.718
4162.5	27.816	182.590	248.539	284.778
4163.0	27.822	182.594	248.579	284.841
4163.5	27.828	182.602	248.663	284.947
4164.0	27.834	182.614	248.755	285.093
4164.5	27.840	182.623	248.801	285.205
4165.0	27.846	182.628	248.832	285.279
4165.5	27.853	182.636	248.886	285.365
4166.0	27.859	182.653	249.004	285.522
4166.5	27.865	182.683	249.163	285.763
4167.0	27.871	182.700	249.236	285.922
4167.5	27.877	182.707	249.268	286.005
4168.0	27.883	182.712	249.298	286.067
4168.5	27.889	182.717	249.332	286.129
4169.0	27.895	182.721	249.374	286.197
4169.5	27.901	182.726	249.432	286.201
4170.0	27.907	182.732	249.499	286.377
4170.5	27.913	182.739	249.557	286.471
4171.0	27.919	182.751	249.621	286.501
4171.5	27.925	182.779	249.764	286.782
4172.0	27.931	182.820	249.957	287.076
4172.5	27.937	182.884	250.198	287.407
4173.0	27.943	182.960	250.416	287.754
4173.5	27.949	182.987	250.502	287.957
4174.0	27.955	182.996	250.546	288.052
4174.5	27.961	183.001	250.582	288.123
4175.0	27.966	183.004	250.613	288.185
4175.5	27.972	183.007	250.648	288.246
4176.0	27.978	183.013	250.703	288.327
4176.5	27.984	183.026	250.829	288.406
4177.0	27.990	183.042	250.943	288.657
4177.5	27.996	183.049	250.982	288.742
4178.0	28.001	183.053	251.018	288.799
4178.5	28.007	183.056	251.039	288.856
4179.0	28.013	183.059	251.076	288.922
4179.5	28.019	183.064	251.129	289.011

Table 6-7 $\int_{\nu} A(\nu)\,d\nu$

Sam. No.	38	39	40	41
p(atm)	5.46×10^{-3}	9.67×10^{-3}	2.01×10^{-2}	2.00×10^{-2}
P_e(atm)	1.99×10^{-1}	9.89×10^{-1}	2.80×10^{-1}	9.79×10^{-1}
u(gm/cm^2)	1.69×10^{-3}	8.67×10^{-2}	1.39×10^{0}	1.38×10^{0}
(cm^{-1})	$\int_{3810}$ cm^{-1}	$\int_{3810}$ cm^{-1}	$\int_{3810}$ cm^{-1}	$\int_{3810}$ cm^{-1}
3810.0	0.	0.	0.	0.
3810.5	0.012	0.498	0.500	0.500
3811.0	0.019	0.994	1.000	1.000
3811.5	0.024	1.486	1.500	1.500
3812.0	0.03	1.973	2.000	2.000
3812.5	0.036	2.458	2.500	2.500
3813.0	0.047	2.944	3.000	3.000
3813.5	0.058	3.435	3.500	3.500
3814.0	0.069	3.931	4.000	4.000
3814.5	0.088	4.430	4.500	4.500
3815.0	0.118	4.930	5.000	5.000
3815.5	0.214	5.430	5.500	5.500
3816.0	0.310	5.930	6.000	6.000
3816.5	0.472	6.430	6.500	6.500
3817.0	1.027	6.930	7.000	7.000
3817.5	1.081	7.430	7.500	7.500
3818.0	1.113	7.930	8.000	8.000
3818.5	1.173	8.430	8.500	8.500
3819.0	1.292	8.930	9.000	9.000
3819.5	1.344	9.430	9.500	9.500
3820.0	1.462	9.930	10.000	10.000
3820.5	1.680	10.430	10.500	10.500
3821.0	1.956	10.930	11.000	11.000
3821.5	2.241	11.430	11.500	11.500
3822.0	2.564	11.930	12.000	12.000
3822.5	2.719	12.430	12.500	12.500
3823.0	2.779	12.930	13.000	13.000
3823.5	2.862	13.430	13.500	13.500
3824.0	2.932	13.930	14.000	14.000
3824.5	3.017	14.430	14.500	14.500
3825.0	3.046	14.930	15.000	15.000
3825.5	3.103	15.430	15.500	15.500
3826.0	3.168	15.930	16.000	16.000
3826.5	3.244	16.430	16.500	16.500
3827.0	3.462	16.930	17.000	17.000
3827.5	3.565	17.430	17.500	17.500
3828.0	3.637	17.930	18.000	18.000
3828.5	3.724	18.430	18.500	18.500
3829.0	3.767	18.930	19.000	19.000
3829.5	3.781	19.430	19.500	19.500
3830.0	3.794	19.929	20.000	20.000
3830.5	3.813	20.426	20.500	20.500
3831.0	3.838	20.925	21.000	21.000
3831.5	3.960	21.424	21.500	21.500
3832.0	4.247	21.924	22.000	22.000
3832.5	4.362	22.424	22.500	22.500
3833.0	4.388	22.924	23.000	23.000
3833.5	4.406	23.424	23.500	23.500
3834.0	4.428	23.924	24.000	24.000
3834.5	4.487	24.424	24.500	24.500
3835.0	4.716	24.924	25.000	25.000
3835.5	4.928	25.424	25.500	25.500
3836.0	4.968	25.924	26.000	26.000
3836.5	5.025	26.424	26.500	26.500
3837.0	5.087	26.924	27.000	27.000
3837.5	5.292	27.424	27.500	27.500
3838.0	5.679	27.924	28.000	28.000
3838.5	5.911	28.424	28.500	28.500
3839.0	5.994	28.924	29.000	29.000
3839.5	6.095	29.424	29.500	29.500
3840.0	6.329	29.924	30.000	30.000
3840.5	6.535	30.424	30.500	30.500
3841.0	6.732	30.924	31.000	31.000
3841.5	6.934	31.424	31.500	31.500
3842.0	6.961	31.924	32.000	32.000
3842.5	7.002	32.424	32.500	32.500
3843.0	7.029	32.924	33.000	33.000
3843.5	7.175	33.424	33.500	33.500
3844.0	7.452	33.924	34.000	34.000
3844.5	7.564	34.424	34.500	34.500
3845.0	7.643	34.924	35.000	35.000
3845.5	7.677	35.424	35.500	35.500
3846.0	7.668	35.924	36.000	36.000
3846.5	7.719	36.424	36.500	36.500
3847.0	7.741	36.921	37.000	37.000
3847.5	7.749	37.418	37.500	37.500
3848.0	7.757	37.914	38.000	38.000
3848.5	7.769	38.406	38.500	38.500
3849.0	7.811	38.897	39.000	39.000
3849.5	7.919	39.396	39.500	39.500
3850.0	8.061	39.887	40.000	40.000
3850.5	8.107	40.386	40.500	40.500
3851.0	8.143	40.886	41.000	41.000
3851.5	8.246	41.386	41.500	41.500
3852.0	8.551	41.896	42.000	42.000

Sam. No.	38	39	40	41
p(atm)	5.46×10^{-3}	9.67×10^{-3}	2.01×10^{-2}	2.00×10^{-2}
P_e(atm)	1.99×10^{-1}	9.89×10^{-1}	2.80×10^{-1}	9.79×10^{-1}
u(gm/cm^2)	1.69×10^{-3}	8.67×10^{-2}	1.39×10^{0}	1.38×10^{0}
(cm^{-1})	$\int_{3810}$ cm^{-1}	$\int_{3810}$ cm^{-1}	$\int_{3810}$ cm^{-1}	$\int_{3810}$ cm^{-1}
3902.5	19.431	92.040	92.500	92.500
3903.0	19.514	92.540	93.000	93.000
3903.5	19.556	93.040	93.500	93.500
3904.0	19.721	93.540	94.000	94.000
3904.5	20.004	94.040	94.500	94.500
3905.0	20.112	94.540	95.000	95.000
3905.5	20.215	95.040	95.500	95.500
3906.0	20.360	95.540	96.000	96.000
3906.5	20.467	96.040	96.500	96.500
3907.0	20.503	96.539	97.000	97.000
3907.5	20.509	97.027	97.500	97.500
3908.0	20.513	97.479	98.000	98.000
3908.5	20.517	97.873	98.500	98.500
3909.0	20.521	98.223	99.000	99.000
3909.5	20.525	98.550	99.500	99.500
3910.0	20.529	98.856	99.999	100.000
3910.5	20.536	99.153	100.497	100.500
3911.0	20.540	99.464	100.992	101.000
3911.5	20.542	99.724	101.485	101.500
3912.0	20.545	99.960	101.975	102.000
3912.5	20.551	100.199	102.463	102.500
3913.0	20.562	100.495	102.953	103.000
3913.5	20.569	100.831	103.447	103.500
3914.0	20.582	101.167	103.945	104.000
3914.5	20.594	101.546	104.444	104.500
3915.0	20.598	101.839	104.939	105.000
3915.5	20.606	102.248	105.435	105.500
3916.0	20.633	102.683	105.933	106.000
3916.5	20.757	103.171	106.432	106.500
3917.0	20.872	103.669	106.931	107.000
3917.5	21.077	104.167	107.430	107.500
3918.0	21.162	104.660	107.930	108.000
3918.5	21.175	105.132	108.430	108.500
3919.0	21.182	105.596	108.930	109.000
3919.5	21.194	106.079	109.430	109.500
3920.0	21.275	106.575	109.930	110.000
3920.5	21.430	107.072	110.430	110.500
3921.0	21.469	107.552	110.930	111.000
3921.5	21.478	107.987	111.430	111.500
3922.0	21.483	108.375	111.930	112.000
3922.5	21.487	108.759	112.430	112.500
3923.0	21.496	109.178	112.930	113.000
3923.5	21.542	109.684	113.430	113.500
3924.0	21.654	110.181	113.930	114.000
3924.5	21.747	110.680	114.430	114.500
3925.0	21.845	111.179	114.930	115.000
3925.5	22.009	111.677	115.430	115.500
3926.0	22.090	112.155	115.930	116.000
3926.5	22.100	112.573	116.430	116.500
3927.0	22.105	112.923	116.930	117.000
3927.5	22.109	113.255	117.430	117.500
3928.0	22.122	113.640	117.930	118.000
3928.5	22.149	114.093	118.430	118.500
3929.0	22.171	114.559	118.930	119.000
3929.5	22.273	115.049	119.430	119.500
3930.0	22.344	115.546	119.930	120.000
3930.5	22.397	116.043	120.430	120.500
3931.0	22.467	116.540	120.930	121.000
3931.5	22.510	117.026	121.430	121.500
3932.0	22.563	117.518	121.930	122.000
3932.5	22.728	118.015	122.430	122.500
3933.0	22.836	118.510	122.930	123.000
3933.5	22.856	118.960	123.430	123.500
3934.0	22.899	119.442	123.930	124.000
3934.5	22.959	119.914	124.430	124.500
3935.0	22.977	120.368	124.930	125.000
3935.5	22.996	120.756	125.429	125.500
3936.0	23.002	121.077	125.918	126.000
3936.5	23.005	121.300	126.379	126.500
3937.0	23.007	121.483	126.831	127.000
3937.5	23.010	121.686	127.295	127.500
3938.0	23.025	121.945	127.780	128.000
3938.5	23.070	122.412	128.276	128.500
3939.0	23.096	122.843	128.775	129.000
3939.5	23.121	123.239	129.269	129.500
3940.0	23.127	123.541	129.757	130.000
3940.5	23.138	123.867	130.249	130.500
3941.0	23.153	124.247	130.746	131.000
3941.5	23.159	124.625	131.244	131.500
3942.0	23.169	125.061	131.744	132.000
3942.5	23.263	125.546	132.244	132.500
3943.0	23.465	126.042	132.744	133.000
3943.5	23.532	126.531	133.244	133.500
3944.0	23.551	127.005	133.744	134.000
3944.5	23.609	127.476	134.243	134.500

Sam. No.	38	39	40	41
p(atm)	5.46×10^{-3}	9.67×10^{-3}	2.01×10^{-2}	2.00×10^{-2}
P_e(atm)	1.99×10^{-1}	9.89×10^{-1}	2.80×10^{-1}	9.79×10^{-1}
u(gm/cm^2)	1.69×10^{-3}	8.67×10^{-2}	1.39×10^{0}	1.38×10^{0}
(cm^{-1})	$\int_{3810}$ cm^{-1}	$\int_{3810}$ cm^{-1}	$\int_{3810}$ cm^{-1}	$\int_{3810}$ cm^{-1}
3995.0	25.604	156.330	179.701	183.841
3995.5	25.647	156.699	179.179	184.339
3996.0	25.652	156.902	179.596	184.820
3996.5	25.654	156.993	179.905	185.275
3997.0	25.656	157.080	180.183	185.715
3997.5	25.658	157.157	180.443	186.117
3998.0	25.660	157.197	180.656	186.474
3998.5	25.661	157.248	180.878	186.838
3999.0	25.665	157.334	181.143	187.233
3999.5	25.668	157.388	181.369	187.592
4000.0	25.670	157.432	181.604	187.951
4000.5	25.672	157.506	181.908	188.364
4001.0	25.676	157.595	182.227	188.801
4001.5	25.687	157.718	182.553	189.235
4002.0	25.687	157.795	182.784	189.599
4002.5	25.690	157.846	182.993	189.952
4003.0	25.697	157.993	183.316	190.376
4003.5	25.704	158.141	183.653	190.816
4004.0	25.710	158.229	183.961	191.228
4004.5	25.714	158.293	184.237	191.632
4005.0	25.718	158.387	184.542	192.076
4005.5	25.725	158.540	184.902	192.550
4006.0	25.734	158.698	185.262	193.006
4006.5	25.738	158.775	185.506	193.445
4007.0	25.743	158.873	185.813	193.967
4007.5	25.751	159.090	186.227	194.397
4008.0	25.764	159.413	186.708	194.896
4008.5	25.797	159.807	187.200	195.396
4009.0	25.853	160.216	187.677	195.895
4009.5	25.866	160.457	188.084	196.368
4010.0	25.870	160.571	188.421	196.866
4010.5	25.875	160.685	188.792	197.346
4011.0	25.881	160.799	189.182	197.829
4011.5	25.886	160.897	189.522	198.301
4012.0	25.890	161.023	189.877	198.778
4012.5	25.912	161.270	190.311	199.270
4013.0	25.921	161.540	190.721	199.751
4013.5	25.926	161.663	191.029	200.210
4014.0	25.930	161.778	191.371	200.677
4014.5	25.935	161.897	191.735	201.149
4015.0	25.939	162.021	192.079	201.618
4015.5	25.946	162.164	192.447	202.081
4016.0	25.951	162.245	192.728	202.507
4016.5	25.956	162.371	193.031	202.967
4017.0	25.961	162.572	193.423	203.419
4017.5	25.968	162.705	193.763	203.885
4018.0	25.971	162.846	194.115	204.361
4018.5	25.979	163.081	194.560	204.836
4019.0	25.989	163.346	195.030	205.355
4019.5	26.015	163.705	195.510	205.853
4020.0	26.044	164.043	195.953	206.348
4020.5	26.049	164.202	196.316	206.835
4021.0	26.053	164.372	196.699	207.320
4021.5	26.060	164.512	197.053	207.777
4022.0	26.064	164.582	197.321	208.263
4022.5	26.066	164.643	197.567	208.607
4023.0	26.067	164.683	197.765	208.973
4023.5	26.068	164.729	197.960	209.350
4024.0	26.070	164.776	198.190	209.771
4024.5	26.071	164.906	198.498	210.236
4025.0	26.077	165.146	198.906	210.729
4025.5	26.117	165.525	199.381	211.225
4026.0	26.140	165.858	199.847	211.718
4026.5	26.142	166.016	200.244	212.199
4027.0	26.144	166.102	200.575	212.655
4027.5	26.146	166.156	200.863	213.040
4028.0	26.148	166.204	201.095	213.450
4028.5	26.149	166.257	201.348	213.836
4029.0	26.150	166.310	201.579	214.219
4029.5	26.155	166.421	201.834	214.650
4030.0	26.168	166.651	202.200	215.123
4030.5	26.172	166.849	202.622	215.613
4031.0	26.175	166.969	202.999	216.093
4031.5	26.184	167.141	203.365	216.574
4032.0	26.189	167.338	203.771	217.046
4032.5	26.190	167.442	204.110	217.433
4033.0	26.193	167.544	204.419	217.935
4033.5	26.194	167.603	204.716	218.336
4034.0	26.195	167.659	204.950	218.710
4034.5	26.198	167.750	205.191	219.112
4035.0	26.202	167.856	205.487	219.534
4035.5	26.202	167.920	205.774	219.874
4036.0	26.203	167.932	205.973	220.182
4036.5	26.204	167.955	206.182	220.533
4037.0	26.205	168.038	206.459	220.900

Sam. No.	38	39	40	41
p(atm)	5.46×10^{-3}	9.67×10^{-3}	2.01×10^{-2}	2.00×10^{-2}
P_e(atm)	1.99×10^{-1}	9.89×10^{-1}	2.80×10^{-1}	9.79×10^{-1}
u(gm/cm^2)	1.69×10^{-3}	8.67×10^{-2}	1.39×10^{0}	1.38×10^{0}
(cm^{-1})	$\int_{3810}$ cm^{-1}	$\int_{3810}$ cm^{-1}	$\int_{3810}$ cm^{-1}	$\int_{3810}$ cm^{-1}
4087.5	26.755	175.364	226.756	251.349
4088.0	26.762	175.607	227.111	251.832
4088.5	26.766	175.921	227.559	252.316
4089.0	26.775	176.090	227.955	252.744
4089.5	26.781	176.144	228.199	253.043
4090.0	26.788	176.174	228.340	253.345
4090.5	26.795	176.196	228.462	253.553
4091.0	26.802	176.212	228.560	253.726
4091.5	26.809	176.227	228.646	253.886
4092.0	26.816	176.240	228.729	254.035
4092.5	26.823	176.253	228.809	254.192
4093.0	26.831	176.277	228.916	254.459
4093.5	26.838	176.322	229.121	254.739
4094.0	26.846	176.372	229.373	254.952
4094.5	26.854	176.396	229.523	255.232
4095.0	26.862	176.406	229.591	255.356
4095.5	26.875	176.420	229.650	255.481
4096.0	26.878	176.430	229.734	255.597
4096.5	26.886	176.439	229.796	255.694
4097.0	26.894	176.447	229.830	255.786
4097.5	26.901	176.455	229.888	255.878
4098.0	26.909	176.462	229.963	255.977
4098.5	26.917	176.469	230.008	256.095
4099.0	26.925	176.477	230.065	256.185
4099.5	26.933	176.483	230.113	256.281
4100.0	26.941	176.490	230.164	256.363
4100.5	26.948	176.497	230.226	256.495
4101.0	26.956	176.505	230.289	256.611
4101.5	26.964	176.516	230.357	256.739
4102.0	26.972	176.529	230.432	256.868
4102.5	26.979	176.545	230.508	257.063
4103.0	26.987	176.565	230.595	257.274
4103.5	26.995	176.609	230.733	257.571
4104.0	27.003	176.736	230.996	257.881
4104.5	27.010	176.946	231.391	258.470
4105.0	27.018	177.193	231.830	258.960
4105.5	27.026	177.463	232.244	259.452
4106.0	27.033	177.703	232.691	259.965
4106.5	27.04	178.010	233.136	260.434
4107.0	27.0	178.157	233.515	260.809
4107.5	27.056	178.228	233.779	261.256
4108.0	27.064	178.258	233.922	261.537
4108.5	27.071	178.281	234.094	261.777
4109.0	27.079	178.327	234.169	262.063
4109.5	27.087	178.422	234.418	262.439
4110.0	27.094	178.488	234.660	262.782
4110.5	27.102	178.513	234.807	263.012
4111.0	27.109	178.526	234.897	263.169
4111.5	27.117	178.536	234.956	263.282
4112.0	27.124	178.544	235.012	263.387
4112.5	27.132	178.552	235.067	263.488
4113.0	27.139	178.560	235.123	263.589
4113.5	27.147	178.568	235.181	263.690
4114.0	27.154	178.577	235.241	263.791
4114.5	27.162	178.586	235.306	263.897
4115.0	27.169	178.594	235.386	264.009
4115.5	27.176	178.603	235.444	264.119
4116.0	27.184	178.611	235.539	264.235
4116.5	27.191	178.620	235.619	264.351
4117.0	27.199	178.627	235.682	264.452
4117.5	27.206	178.632	235.733	264.546
4118.0	27.213	178.638	235.781	264.630
4118.5	27.221	178.642	235.825	264.720
4119.0	27.228	178.648	235.868	264.810
4119.5	27.235	178.655	235.915	264.907
4120.0	27.242	178.665	235.970	265.032
4120.5	27.250	178.696	236.059	265.238
4121.0	27.257	178.761	236.266	265.564
4121.5	27.264	178.869	236.530	265.942
4122.0	27.272	178.899	236.663	266.172
4122.5	27.279	178.912	236.735	266.316
4123.0	27.286	178.925	236.830	266.477
4123.5	27.293	178.940	236.953	266.660
4124.0	27.300	178.954	237.050	266.825
4124.5	27.308	178.982	237.159	267.037
4125.0	27.315	179.045	237.383	267.387
4125.5	27.322	179.109	237.671	267.720
4126.0	27.329	179.131	237.810	267.912
4126.5	27.336	179.141	237.870	268.032
4127.0	27.343	179.146	237.927	268.138
4127.5	27.350	179.155	237.995	268.253
4128.0	27.357	179.167	238.076	268.457
4128.5	27.365	179.190	238.225	268.656
4129.0	27.372	179.229	238.442	268.911
4129.5	27.379	179.255	238.513	269.040

Table 6-7 $\int_{\nu'}^{\nu} A(\nu)\,d\nu$ (cont'd)

Sam. No.	38	39	40	41
p(atm)	5.46×10^{-3}	9.67×10^{-3}	2.01×10^{-2}	2.00×10^{-2}
P_e(atm)	1.99×10^{-1}	9.89×10^{-1}	2.80×10^{-1}	9.79×10^{-1}
w(gm/cm^2)	1.69×10^{-3}	8.67×10^{-2}	1.39×10^{0}	1.38×10^{0}
ν (cm^{-1})	$\nu'=3810$ cm^{-1}	$\nu'=3810$ cm^{-1}	$\nu'=3810$ cm^{-1}	$\nu'=3810$ cm^{-1}
4180.0	28.325	183.071	251.203	289.129
4180.5	28.330	183.082	251.277	289.271
4181.0	28.336	183.119	251.409	289.402
4181.5	28.342	183.236	251.677	289.841
4182.0	28.347	183.330	251.928	290.202
4182.5	28.353	183.355	252.054	290.434
4183.0	28.359	183.364	252.124	290.572
4183.5	28.364	183.369	252.159	290.647
4184.0	28.370	183.372	252.186	290.707
4184.5	28.376	183.375	252.210	290.745
4185.0	28.381	183.377	252.244	290.876
4185.5	28.387	183.381	252.287	290.901
4186.0	28.393	183.387	252.333	290.994
4186.5	28.398	183.398	252.397	291.116
4187.0	28.404	183.439	252.519	291.318
4187.5	28.409	183.532	252.755	291.655
4188.0	28.415	183.602	252.970	291.964
4188.5	28.420	183.617	253.052	292.124
4189.0	28.426	183.622	253.091	292.208
4189.5	28.431	183.624	253.125	292.282
4190.0	28.437	183.626	253.168	292.354
4190.5	28.442	183.635	253.238	292.490
4191.0	28.448	183.669	253.362	292.698
4191.5	28.453	183.734	253.578	293.003
4192.0	28.459	183.773	253.753	293.267
4192.5	28.464	183.781	253.832	293.410
4193.0	28.469	183.784	253.880	293.512
4193.5	28.475	183.789	253.932	293.633
4194.0	28.480	183.811	254.053	293.849
4194.5	28.486	183.874	254.277	294.192
4195.0	28.491	183.975	254.552	294.543
4195.5	28.496	184.036	254.757	294.914
4196.0	28.502	184.069	254.962	295.234
4196.5	28.507	184.122	255.099	295.465
4197.0	28.512	184.134	255.183	295.615
4197.5	28.518	184.145	255.286	295.765
4198.0	28.523	184.151	255.356	295.876
4198.5	28.528	184.154	255.388	295.942
4199.0	28.533	184.156	255.410	295.991
4199.5	28.539	184.159	255.433	296.054
4200.0	28.544	184.168	255.499	296.185
4200.5	28.549	184.182	255.618	296.374
4201.0	28.554	184.190	255.706	296.516
4201.5	28.559	184.195	255.762	296.613
4202.0	28.565	184.202	255.831	296.723
4202.5	28.570	184.214	255.947	296.867
4203.0	28.575	184.223	256.026	297.009
4203.5	28.580	184.227	256.078	297.103
4204.0	28.285	184.239	256.190	297.236
4204.5	28.290	184.296	256.322	297.476
4205.0	28.295	184.402	256.600	297.841
4205.5	28.301	184.448	256.794	298.115
4206.0	28.306	184.459	256.872	298.262
4206.5	28.311	184.467	256.947	298.369
4207.0	28.316	184.475	257.011	298.502
4207.5	28.321	184.493	257.125	298.668
4208.0	28.326	184.523	257.309	298.920
4208.5	28.331	184.542	257.443	299.152
4209.0	28.336	184.549	257.489	299.254
4209.5	28.341	184.551	257.515	299.315
4210.0	28.346	184.553	257.536	299.360
4210.5	28.351	184.556	257.555	299.399
4211.0	28.356	184.556	257.572	299.436
4211.5	28.361	184.557	257.593	299.472
4212.0	28.366	184.557	257.619	299.514
4212.5	28.370	184.558	257.654	299.567
4213.0	28.375	184.559	257.684	299.614
4213.5	28.380	184.562	257.713	299.665
4214.0	28.385	184.569	257.773	299.755
4214.5	28.390	184.576	257.838	299.845
4215.0	28.395	184.580	257.867	299.904
4215.5	28.400	184.583	257.893	299.962
4216.0	28.404	184.588	257.941	300.059
4216.5	28.409	184.611	258.073	300.246
4217.0	28.414	184.661	258.306	300.555
4217.5	28.419	184.705	258.508	300.845
4218.0	28.424	184.729	258.640	301.056
4218.5	28.428	184.755	258.775	301.271
4219.0	28.433	184.769	258.841	301.403
4219.5	28.438	184.773	258.878	301.468
4220.0	28.442	184.776	258.916	301.530
4220.5	28.447	184.780	258.967	301.639
4221.0	28.452	184.794	259.072	301.783
4221.5	28.457	184.821	259.227	302.016
4222.0	28.461	184.834	259.335	302.244
4222.5	28.466	184.841	259.394	302.265
4223.0	28.470	184.848	259.431	302.341
4223.5	28.475	184.854	259.466	302.420
4224.0	28.480	184.868	259.540	302.576
4224.5	28.484	184.891	259.682	302.788
4225.0	28.489	184.901	259.757	302.914
4225.5	28.493	184.903	259.786	302.961
4226.0	28.498	184.903	259.797	302.999
4226.5	28.503	184.903	259.813	303.046
4227.0	28.507	184.904	259.829	303.066
4227.5	28.512	184.906	259.848	303.107
4228.0	28.516	184.908	259.867	303.142
4228.5	28.521	184.908	259.891	303.182
4229.0	28.525	184.908	259.922	303.232
4229.5	28.530	184.912	259.973	303.334
4230.0	28.534	184.931	260.096	303.541
4230.5	28.538	184.951	260.258	303.740
4231.0	28.543	184.962	260.352	303.862
4231.5	28.547	184.971	260.426	303.962
4232.0	28.552	184.979	260.472	304.026
4232.5	28.556	184.980	260.499	304.069
4233.0	28.560	184.980	260.524	304.104
4233.5	28.565	184.980	260.546	304.137
4234.0	28.569	184.980	260.567	304.173
4234.5	28.573	184.980	260.592	304.207
4235.0	28.578	184.980	260.612	304.239
4235.5	28.582	184.981	260.632	304.275
4236.0	28.586	184.984	260.657	304.325
4236.5	28.591	184.989	260.682	304.374
4237.0	28.595	184.991	260.711	304.419
4237.5	28.599	184.991	260.735	304.456
4238.0	28.603	184.991	260.751	304.485
4238.5	28.608	184.991	260.764	304.515
4239.0	28.612	184.991	260.782	304.550
4239.5	28.616	184.994	260.817	304.620
4240.0	28.620	185.004	260.925	304.781
4240.5	28.625	185.028	261.044	304.944
4241.0	28.629	185.037	261.082	305.023
4241.5	28.633	185.039	261.109	305.070
4242.0	28.637	185.040	261.145	305.118
4242.5	28.641	185.042	261.192	305.189
4243.0	28.645	185.049	261.274	305.313
4243.5	28.649	185.056	261.342	305.425
4244.0	28.653	185.059	261.369	305.479
4244.5	28.657	185.061	261.390	305.524
4245.0	28.662	185.062	261.403	305.556
4245.5	28.666	185.063	261.415	305.583
4246.0	28.670	185.064	261.429	305.609
4246.5	28.674	185.064	261.452	305.641
4247.0	28.678	185.064	261.477	305.680
4247.5	28.682	185.064	261.498	305.718
4248.0	28.686	185.066	261.520	305.753
4248.5	28.690	185.068	261.542	305.807
4249.0	28.694	185.070	261.562	305.850
4249.5	28.698	185.072	261.593	305.903
4250.0	28.701	185.074	261.668	305.998
4250.5	28.705	185.098	261.845	306.218
4251.0	28.709	185.155	262.085	306.550
4251.5	28.713	185.206	262.242	306.843
4252.0	28.717	185.233	262.390	307.071
4252.5	28.721	185.273	262.557	307.331
4253.0	28.725	185.300	262.646	307.512
4253.5	28.729	185.305	262.699	307.601
4254.0	28.732	185.308	262.765	307.689
4254.5	28.736	185.311	262.810	307.766
4255.0	28.740	185.313	262.843	307.826
4255.5	28.744	185.322	262.927	307.942
4256.0	28.748	185.340	263.031	308.115
4256.5	28.751	185.350	263.072	308.219
4257.0	28.755	185.351	263.088	308.257
4257.5	28.759	185.352	263.103	308.282
4258.0	28.763	185.352	263.116	308.305
4258.5	28.766	185.352	263.132	308.327
4259.0	28.770	185.352	263.158	308.362
4259.5	28.774	185.352	263.204	308.424
4260.0	28.777	185.352	263.254	308.491
4260.5	28.781	185.352	263.299	308.550
4261.0	28.785	185.352	263.328	308.593
4261.5	28.788	185.352	263.346	308.622
4262.0	28.792	185.352	263.368	308.652
4262.5	28.796	185.352	263.388	308.681
4263.0	28.799	185.352	263.410	308.713
4263.5	28.803	185.352	263.437	308.756
4264.0	28.806	185.352	263.488	308.820
4264.5	28.810	185.352	263.578	308.958
4265.0	28.813	185.352	263.643	309.077
4265.5	28.817	185.352	263.659	309.126
4266.0	28.820	185.352	263.685	309.153
4266.5	28.824	185.352	263.698	309.176
4267.0	28.827	185.352	263.711	309.197
4267.5	28.831	185.352	263.725	309.225
4268.0	28.834	185.352	263.737	309.255
4268.5	28.838	185.352	263.749	309.283
4269.0	28.841	185.352	263.766	309.326
4269.5	28.845	185.352	263.834	309.433
4270.0	28.848	185.352	263.958	309.627
4270.5	28.851	185.352	264.036	309.780
4271.0	28.855	185.352	264.086	309.870
4271.5	28.858	185.352	264.167	309.994
4272.0	28.862	185.352	264.220	310.094
4272.5	28.865	185.352	264.277	310.170
4273.0	28.868	185.352	264.361	310.287
4273.5	28.872	185.352	264.438	310.397
4274.0	28.875	185.352	264.497	310.477
4274.5	28.878	185.352	264.529	310.531
4275.0	28.881	185.352	264.595	310.586
4275.5	28.885	185.352	264.615	310.672
4276.0	28.888	185.352	264.684	310.766
4276.5	28.891	185.352	264.714	310.820
4277.0	28.894	185.352	264.720	310.849
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4293.5	28.994	185.352	265.299	311.906
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4303.0	29.044	185.352	265.601	312.486
4303.5	29.047	185.352	265.637	312.544
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4306.5	29.062	185.352	266.140	313.318
4307.0	29.064	185.352	266.244	313.492
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4308.0	29.069	185.352	266.322	313.628
4308.5	29.071	185.352	266.333	313.646
4309.0	29.074	185.352	266.345	313.670
4309.5	29.076	185.352	266.362	313.701
4310.0	29.078	185.352	266.377	313.729
4310.5	29.081	185.352	266.387	313.750
4311.0	29.083	185.352	266.394	313.766
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4324.0	29.139	185.352	266.705	314.346
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4326.5	29.149	185.352	266.769	314.461
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4327.5	29.153	185.352	266.782	314.486
4328.0	29.155	185.352	266.791	314.500
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4329.0	29.159	185.352	266.825	314.550
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4330.0	29.162	185.352	266.869	314.617
4330.5	29.164	185.352	266.874	314.630
4331.0	29.166	185.352	266.876	314.640
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4336.0	29.183	185.352	266.911	314.743
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4337.0	29.187	185.352	266.929	314.771
4337.5	29.188	185.352	266.934	314.782
4338.0	29.190	185.352	266.935	314.792
4338.5	29.192	185.352	266.938	314.796
4339.0	29.193	185.352	266.944	314.805
4339.5	29.195	185.352	266.952	314.814
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4344.0	29.208	185.352	266.996	314.926
4344.5	29.210	185.352	267.000	314.937
4345.0	29.211	185.352	267.006	314.950
4345.5	29.213	185.352	267.011	314.965
4346.0	29.214	185.352	267.016	314.974
4346.5	29.216	185.352	267.019	314.983
4347.0	29.217	185.352	267.022	314.992
4347.5	29.218	185.352	267.023	315.001
4348.0	29.220	185.352	267.025	315.010
4348.5	29.221	185.352	267.029	315.021
4349.0	29.222	185.352	267.036	315.039
4349.5	29.224	185.352	267.043	315.054
4350.0	29.225	185.352	267.047	315.068
4350.5	29.226	185.352	267.049	315.077
4351.0	29.228	185.352	267.053	315.087
4351.5	29.229	185.352	267.057	315.099
4352.0	29.230	185.352	267.061	315.106
4352.5	29.231	185.352	267.063	315.113
4353.0	29.233	185.352	267.065	315.122
4353.5	29.234	185.352	267.073	315.130
4354.0	29.235	185.352	267.087	315.161
4354.5	29.236	185.352	267.097	315.179
4355.0	29.237	185.352	267.103	315.191
4355.5	29.239	185.352	267.110	315.217
4356.0	29.240	185.352	267.149	315.291
4356.5	29.241	185.352	267.206	315.376
4357.0	29.242	185.352	267.236	315.432
4357.5	29.243	185.352	267.270	315.487
4358.0	29.244	185.352	267.300	315.526
4358.5	29.245	185.352	267.315	315.540
4359.0	29.246	185.352	267.321	315.562
4359.5	29.248	185.352	267.324	315.571
4360.0	29.249	185.352	267.325	315.578
4360.5	29.250	185.352	267.326	315.586
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4361.5	29.252	185.352	267.328	315.599
4362.0	29.253	185.352	267.330	315.609
4362.5	29.254	185.352	267.341	315.627
4363.0	29.255	185.352	267.367	315.661
4363.5	29.256	185.352	267.399	315.696
4364.0	29.256	185.352	267.417	315.732
4364.5	29.257	185.352	267.447	315.778

SECTION 7

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